

FIG. 1

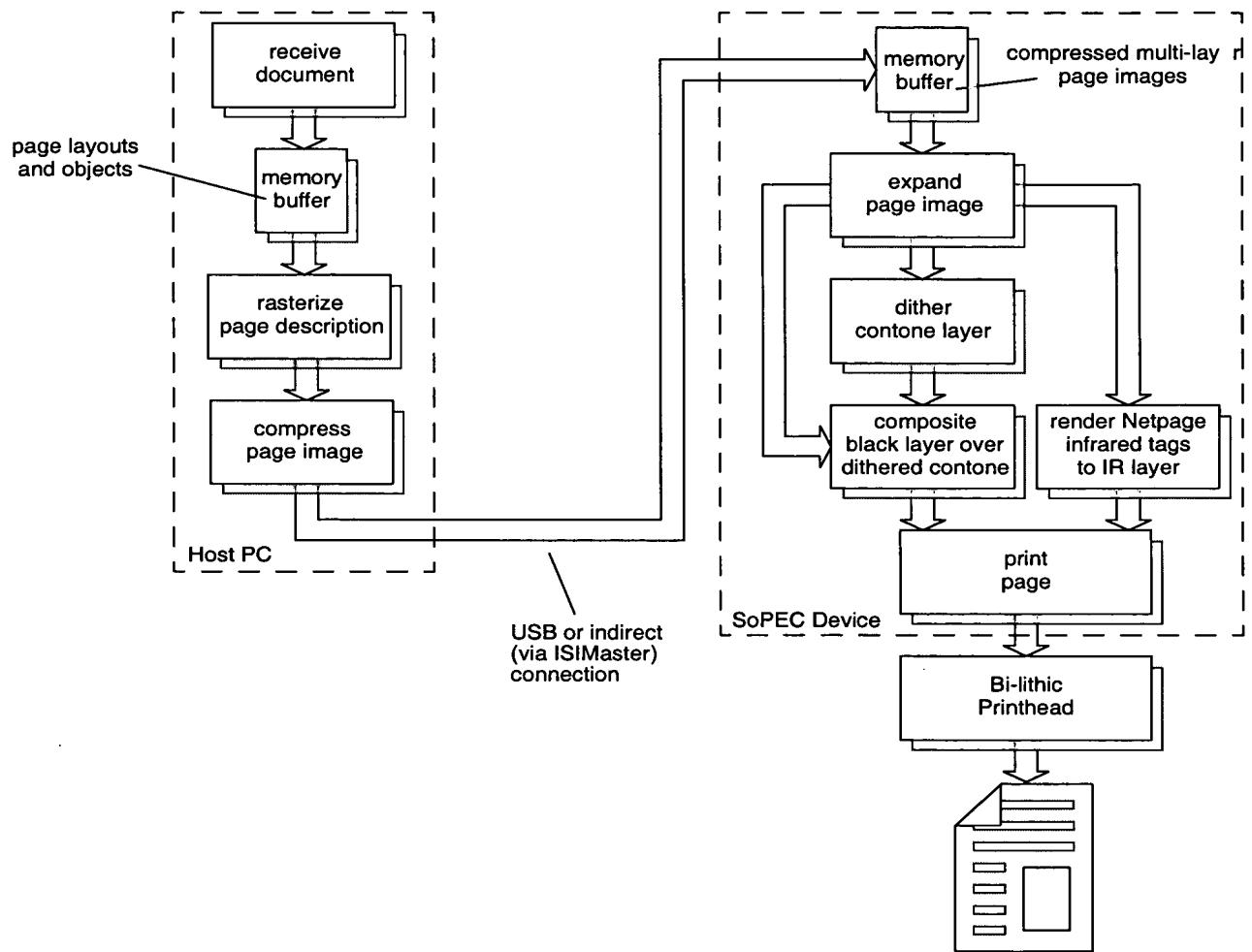


FIG. 2

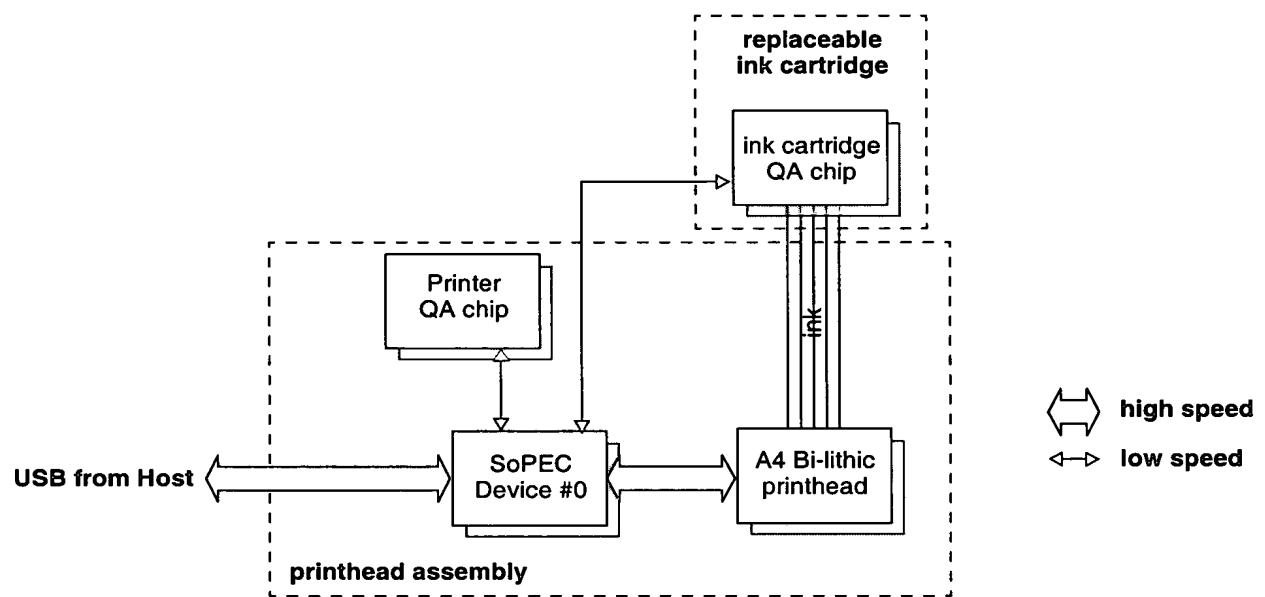


FIG. 3

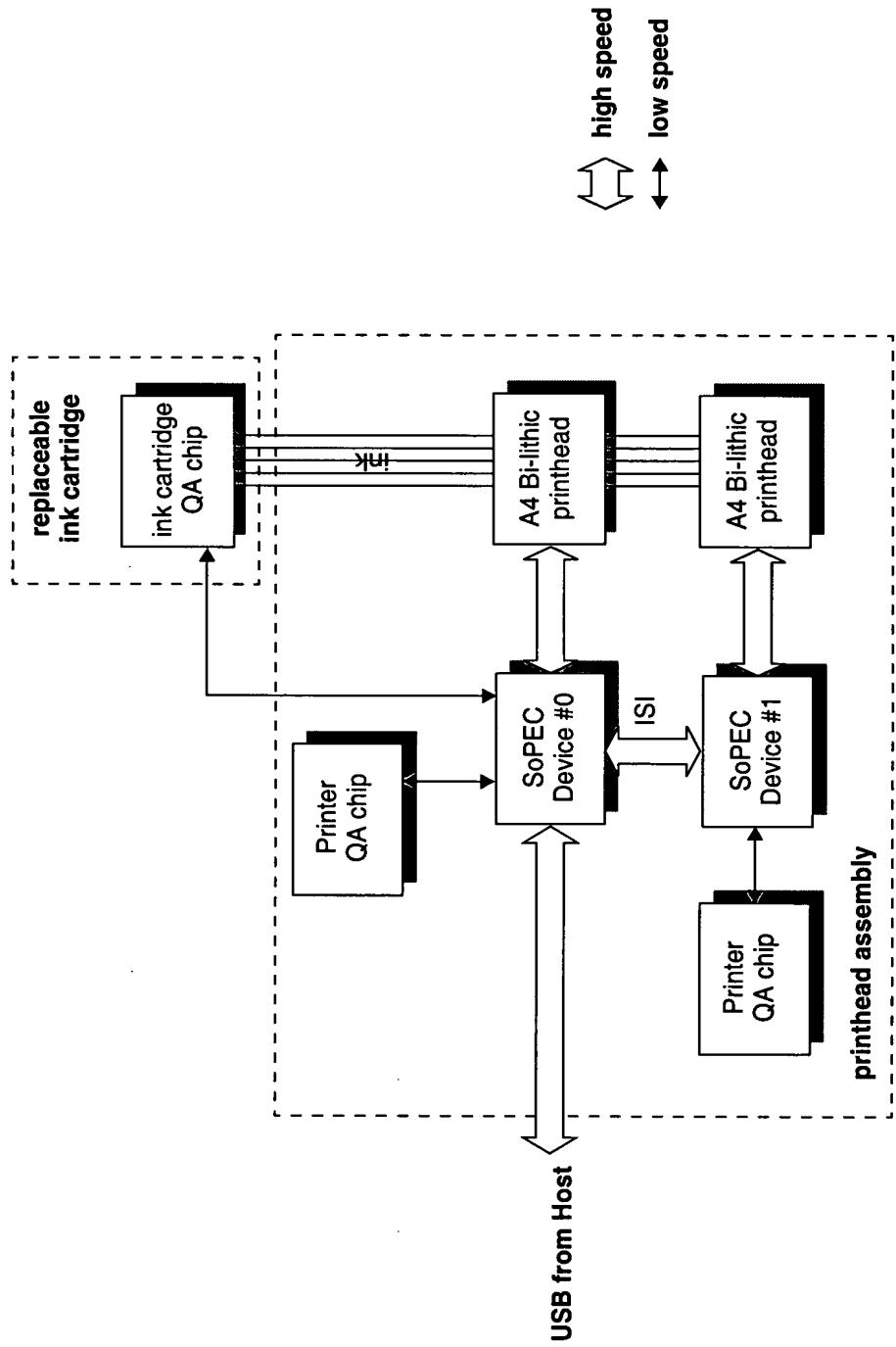


FIG. 4

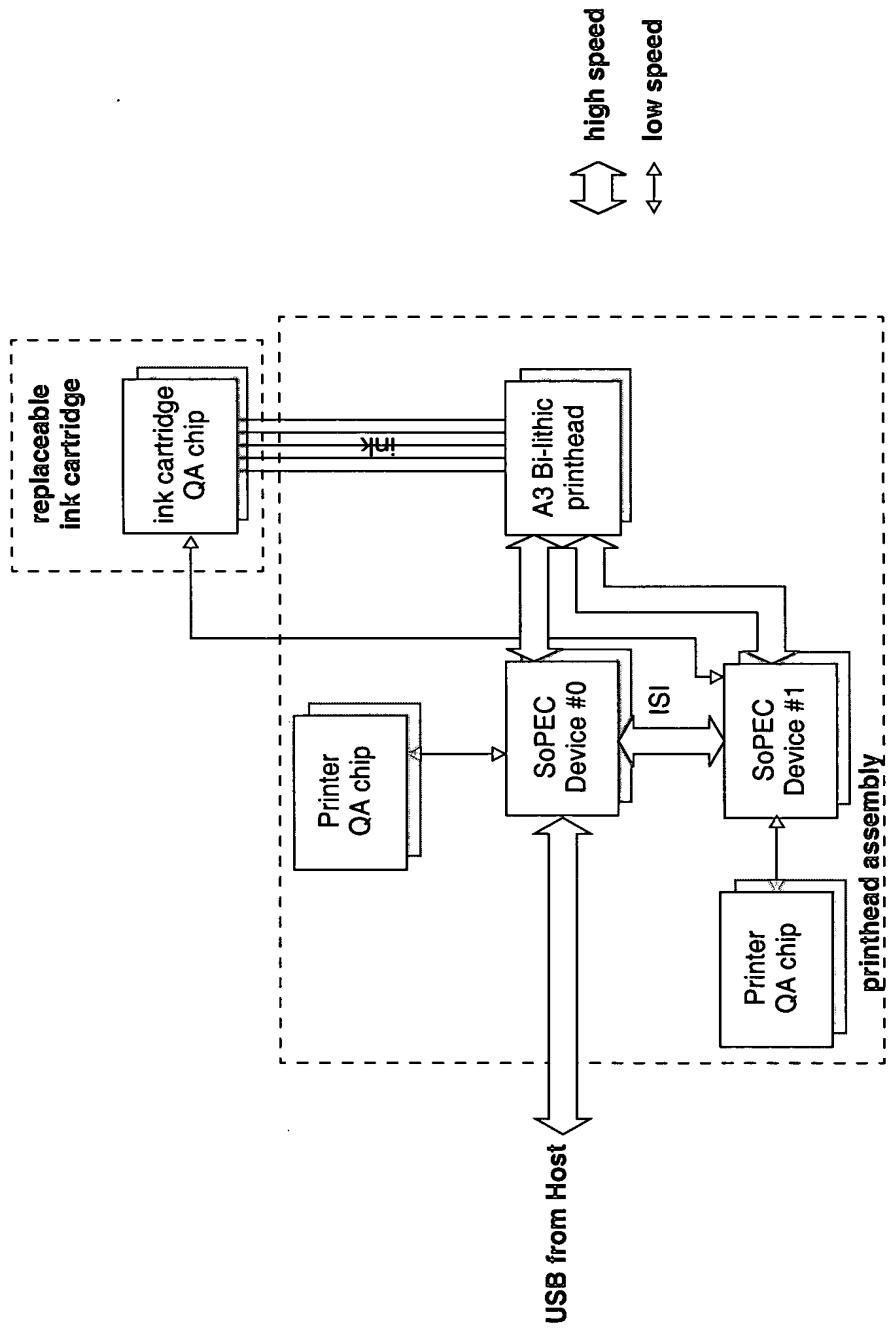


FIG. 5

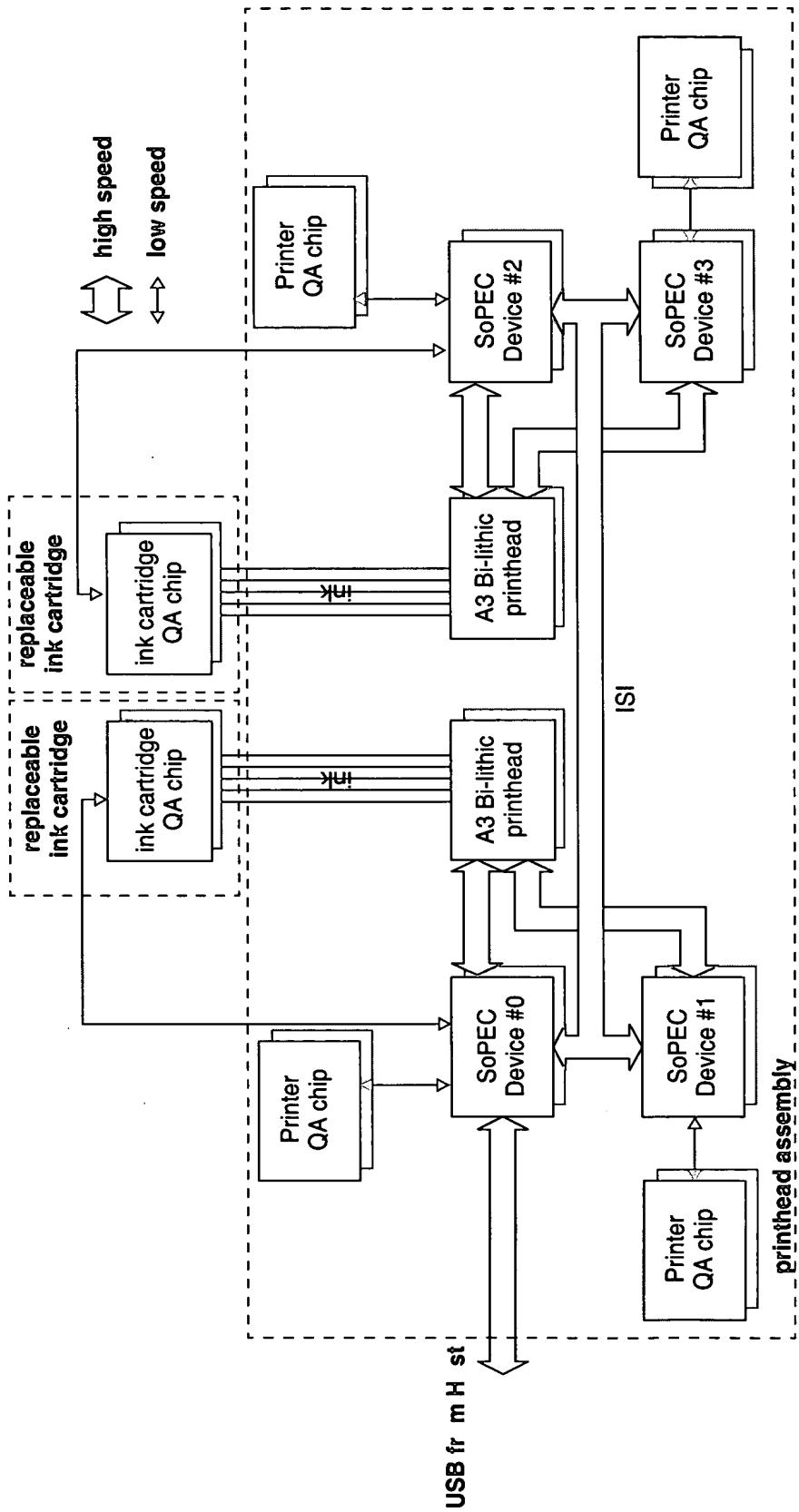


FIG. 6

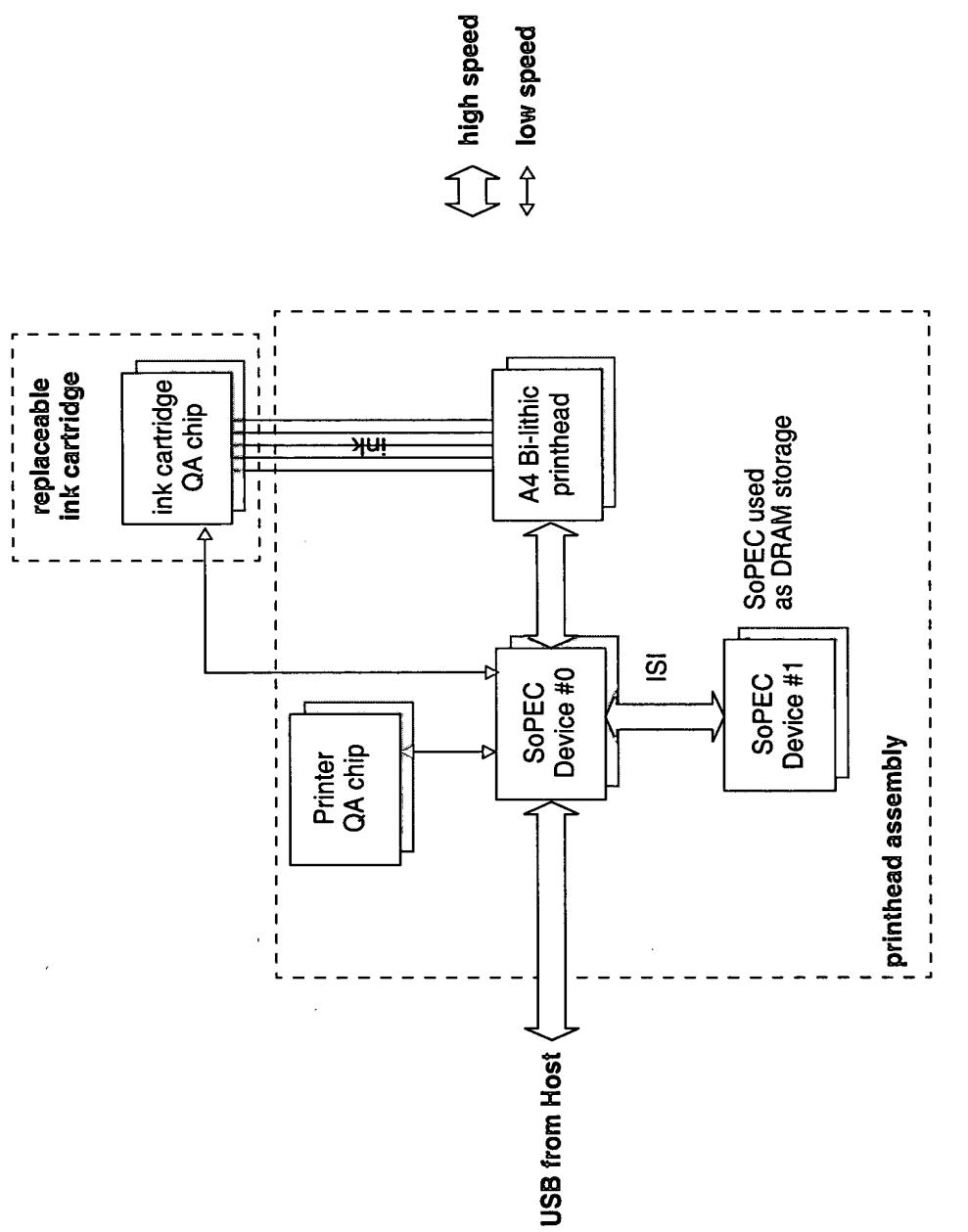


FIG. 7

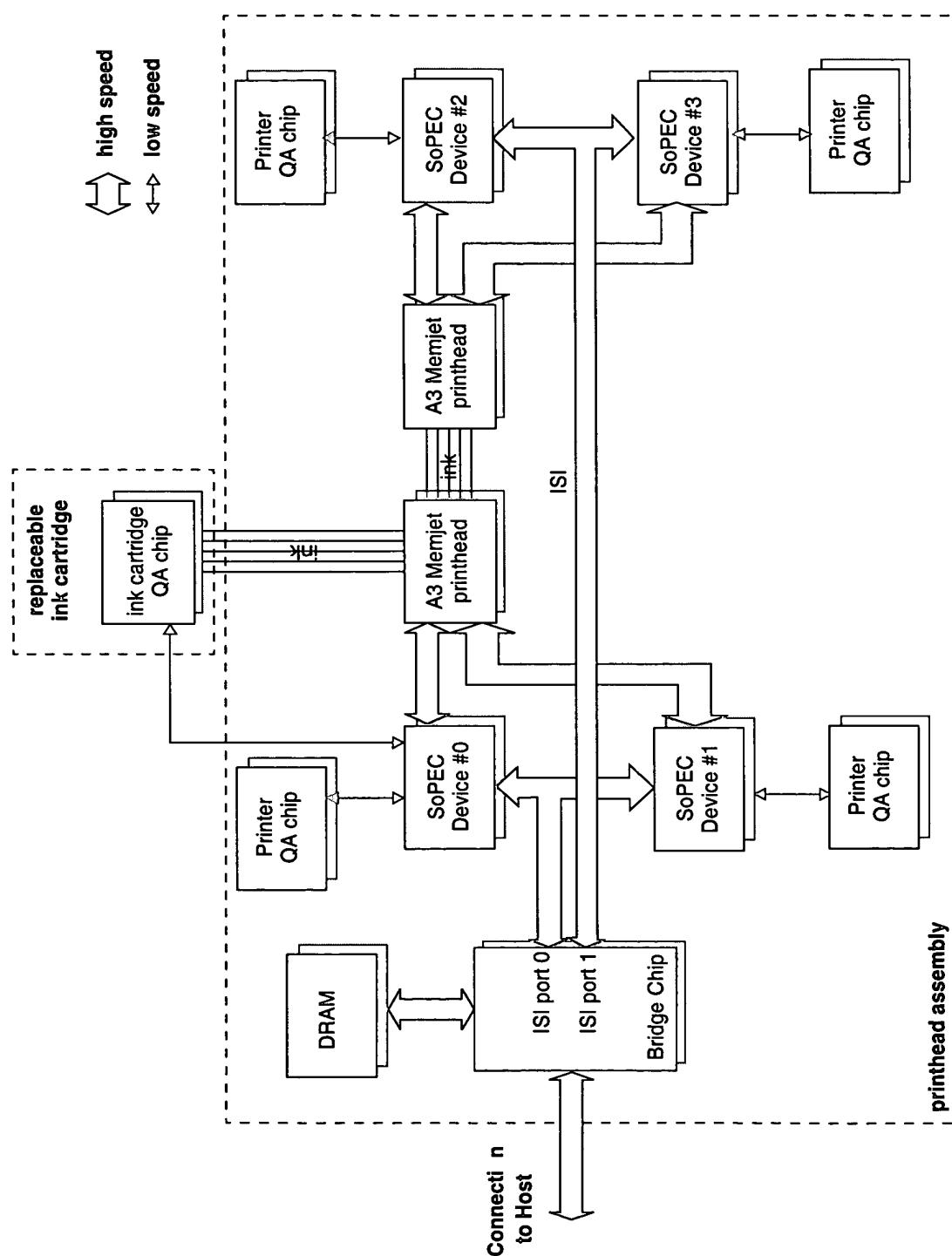
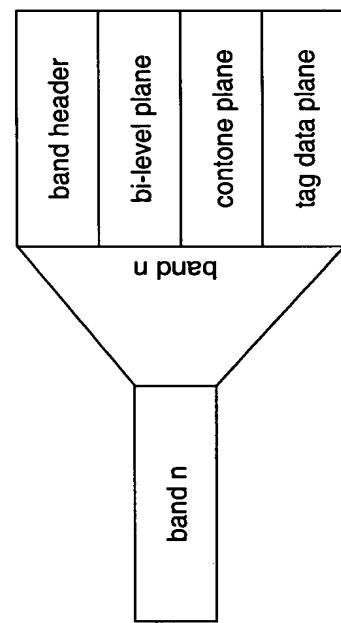
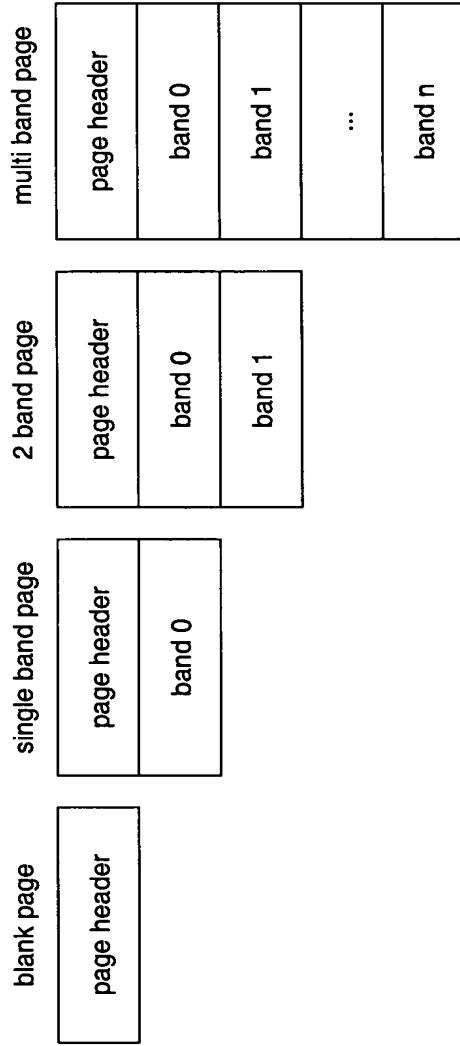


FIG. 8



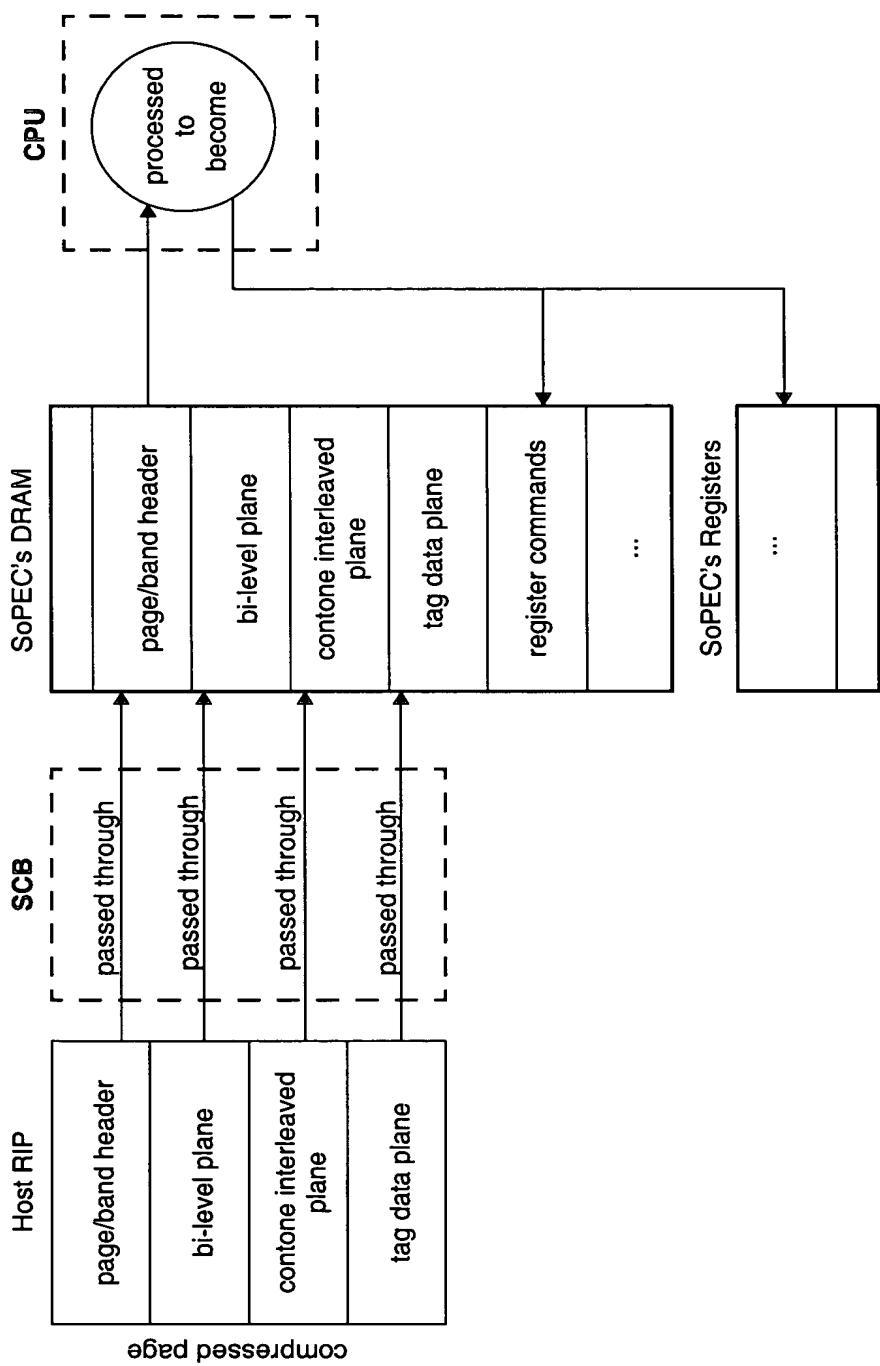


FIG. 11

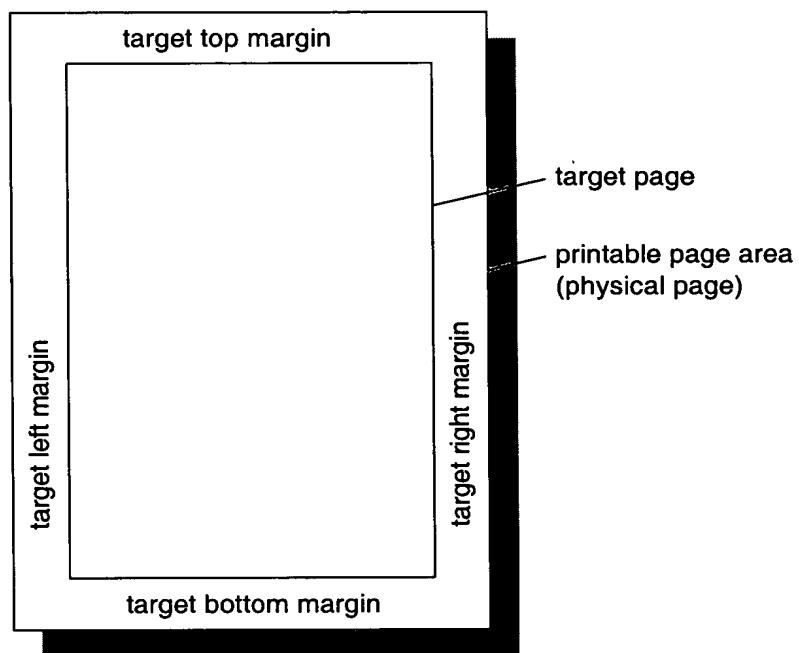


FIG. 12

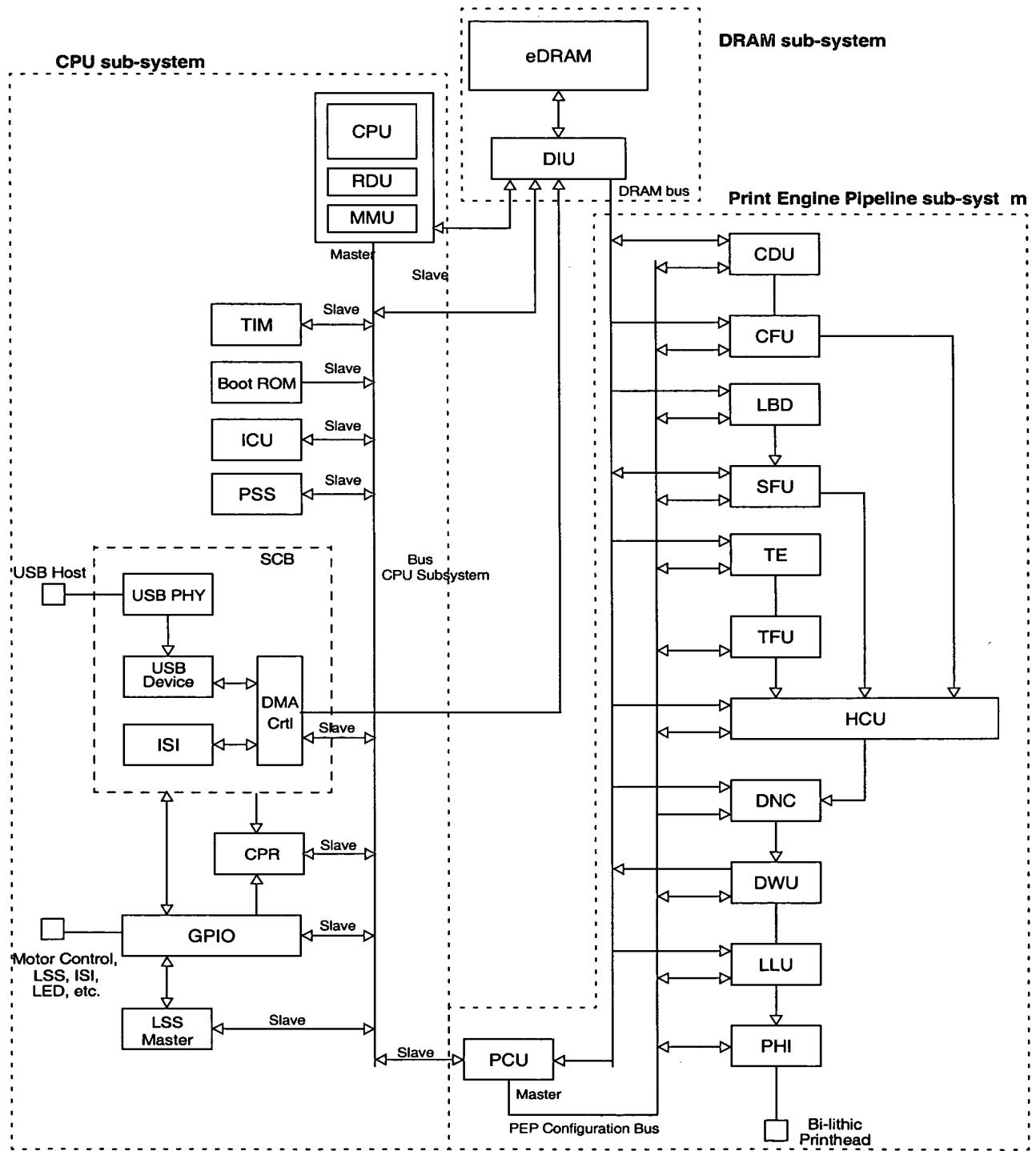


FIG. 13

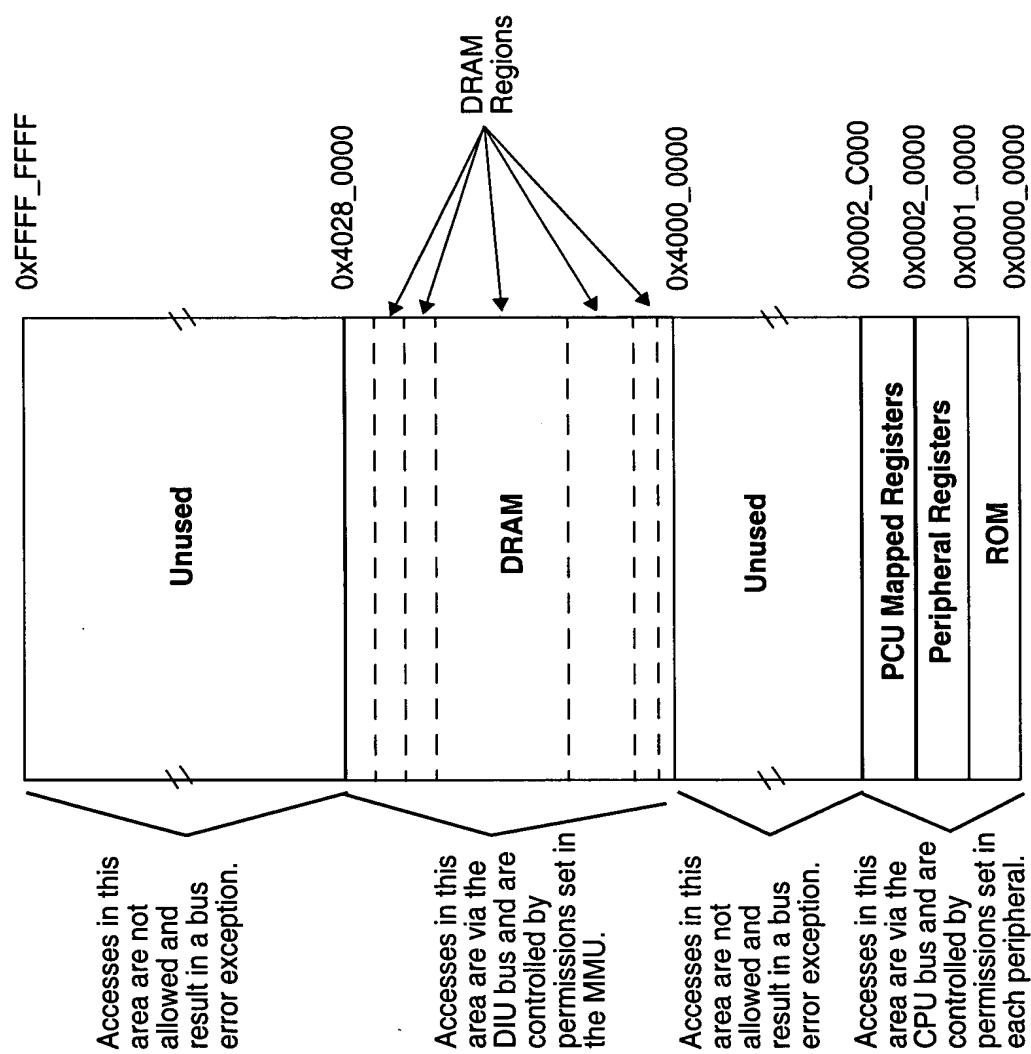


FIG. 14

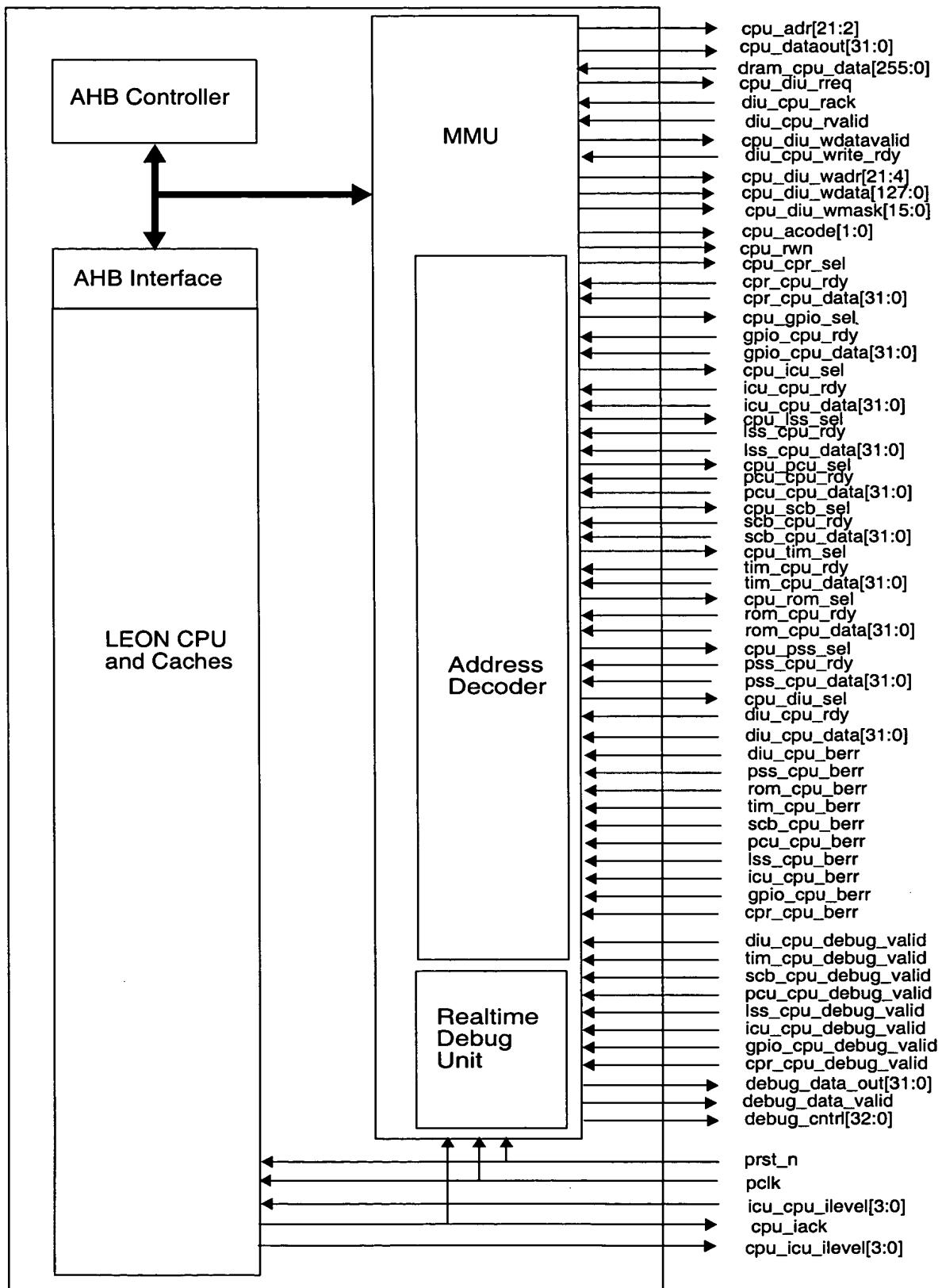


FIG. 15

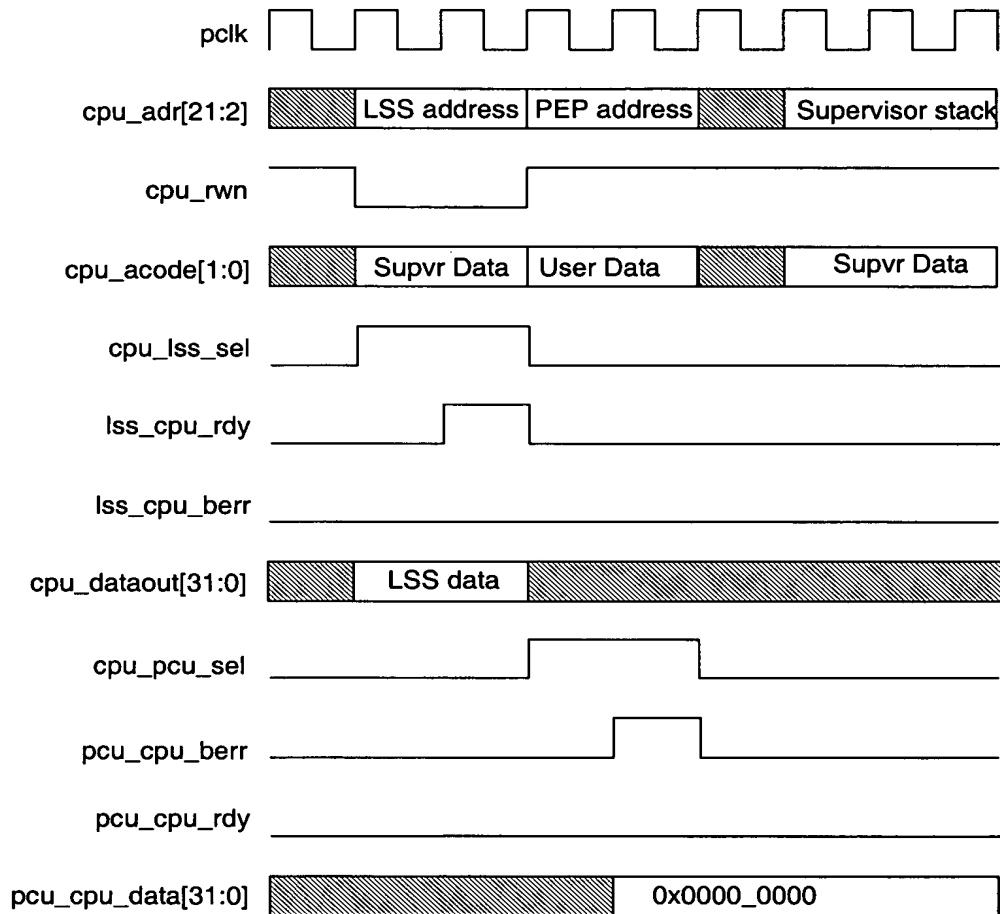


FIG. 16

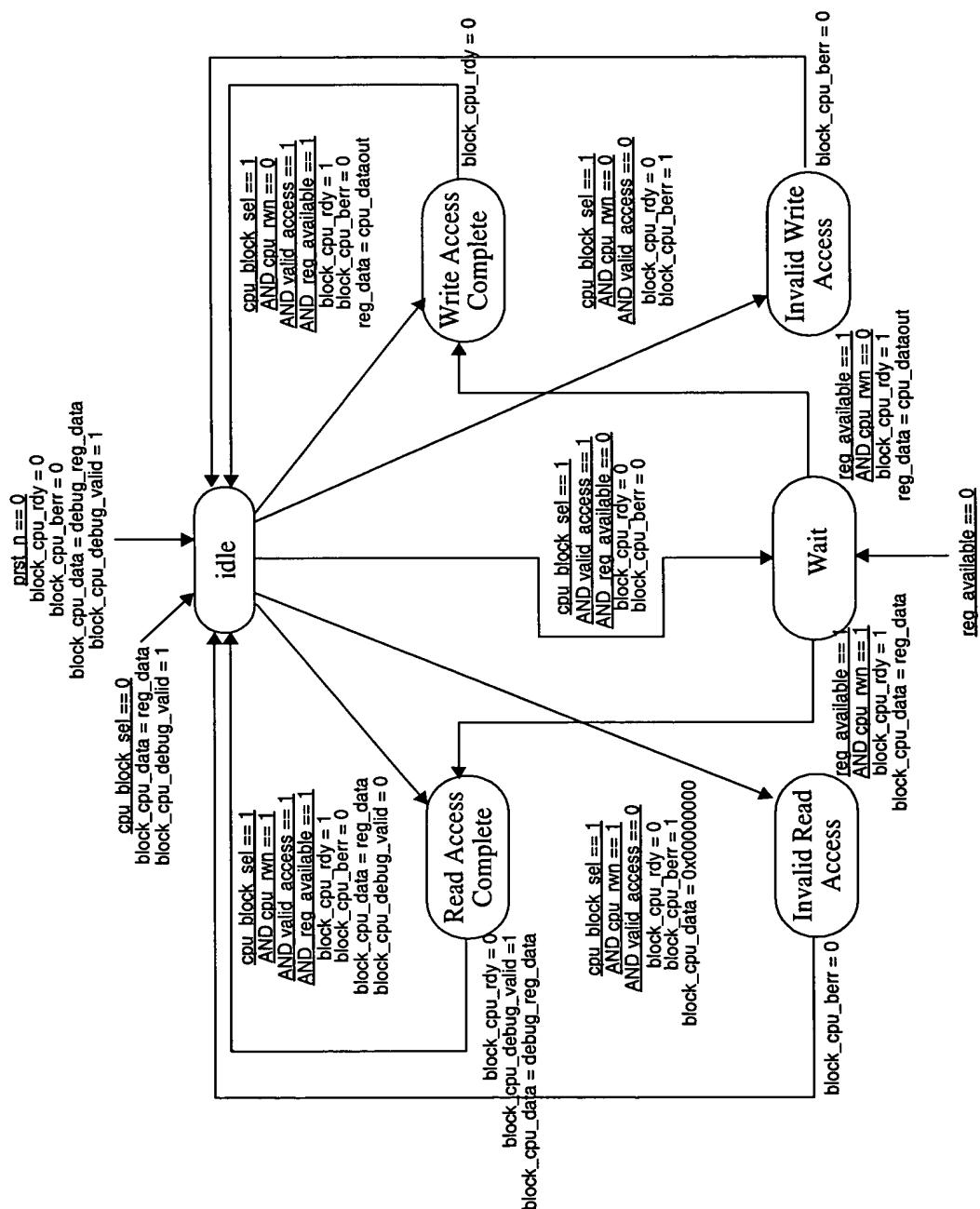


FIG. 17

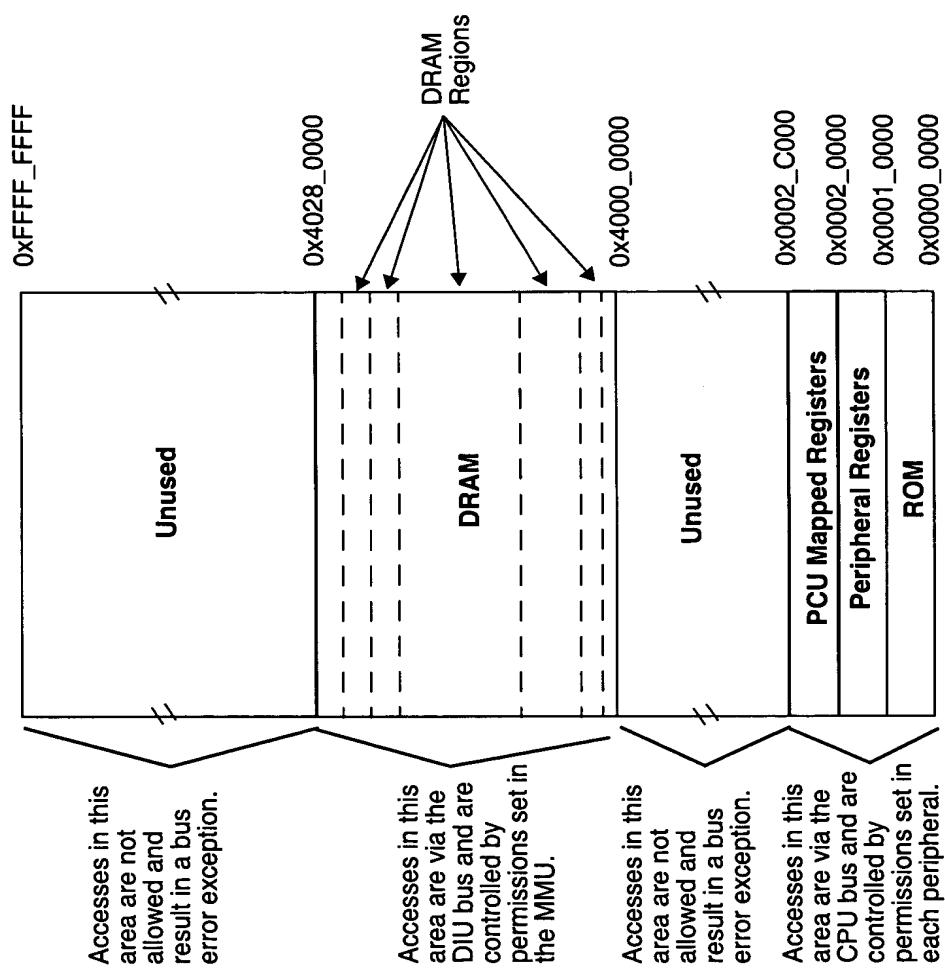


FIG. 18

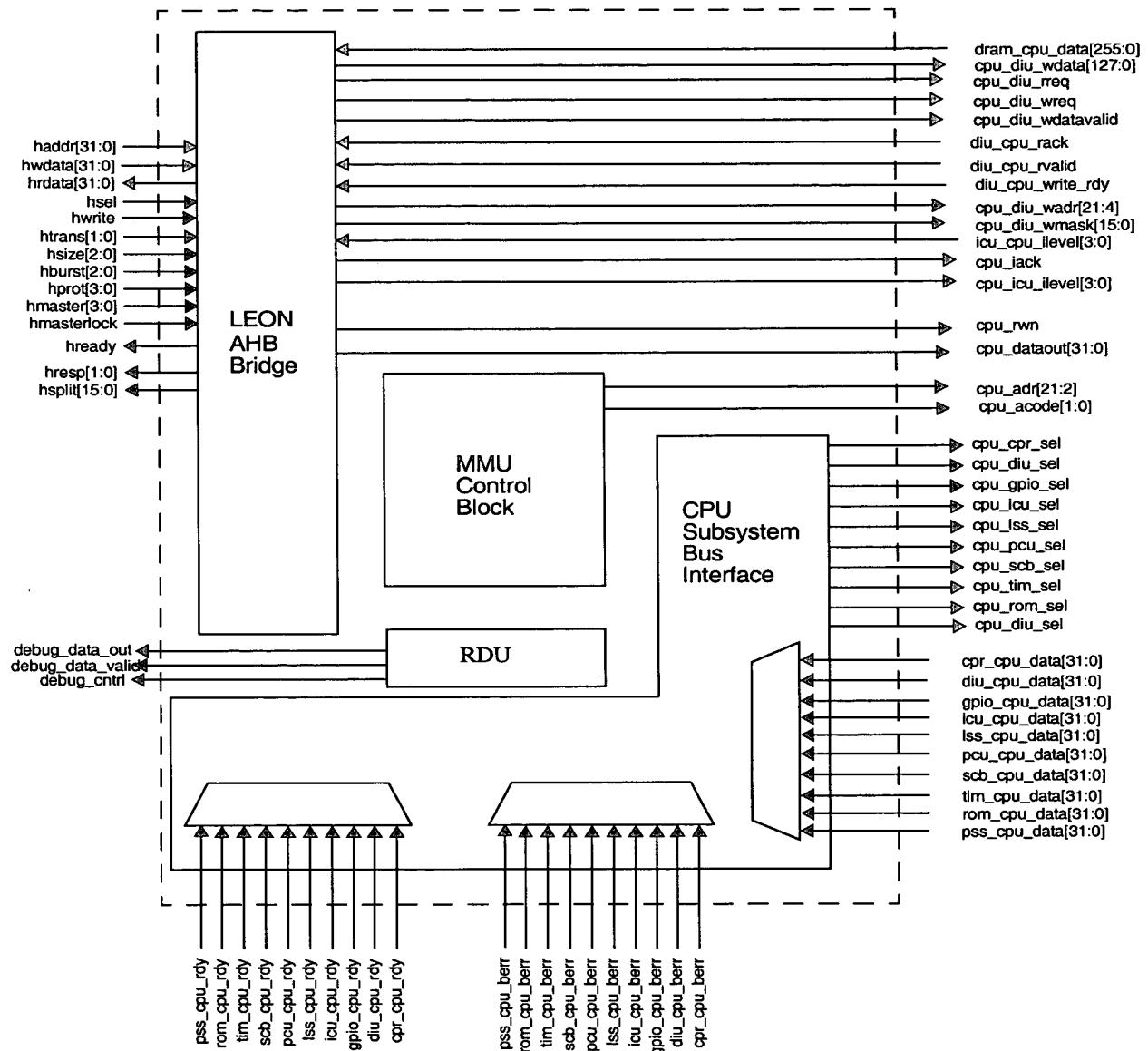


FIG. 19

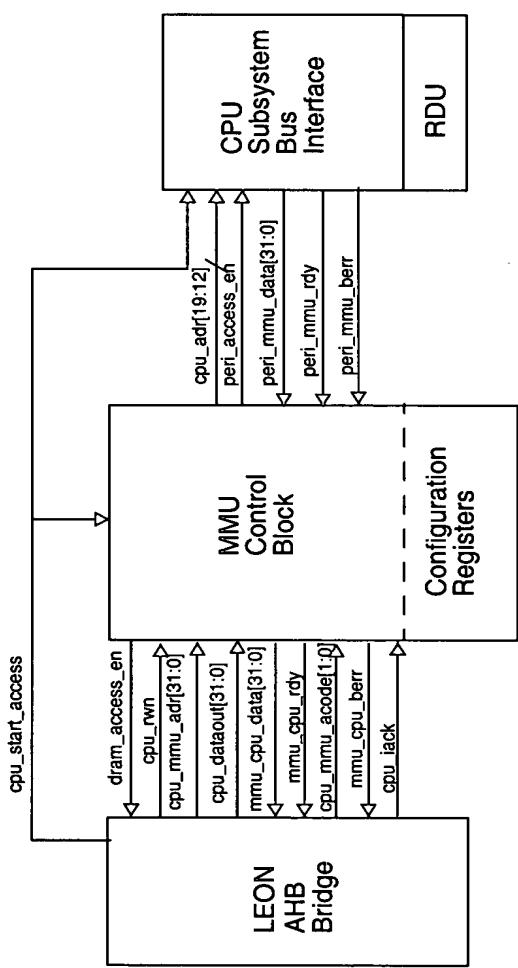


FIG. 20

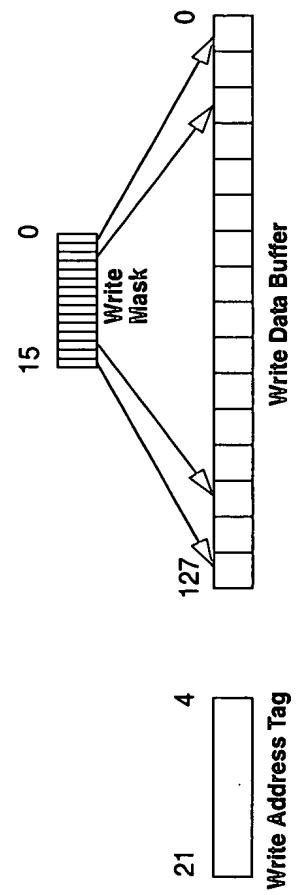


FIG. 21

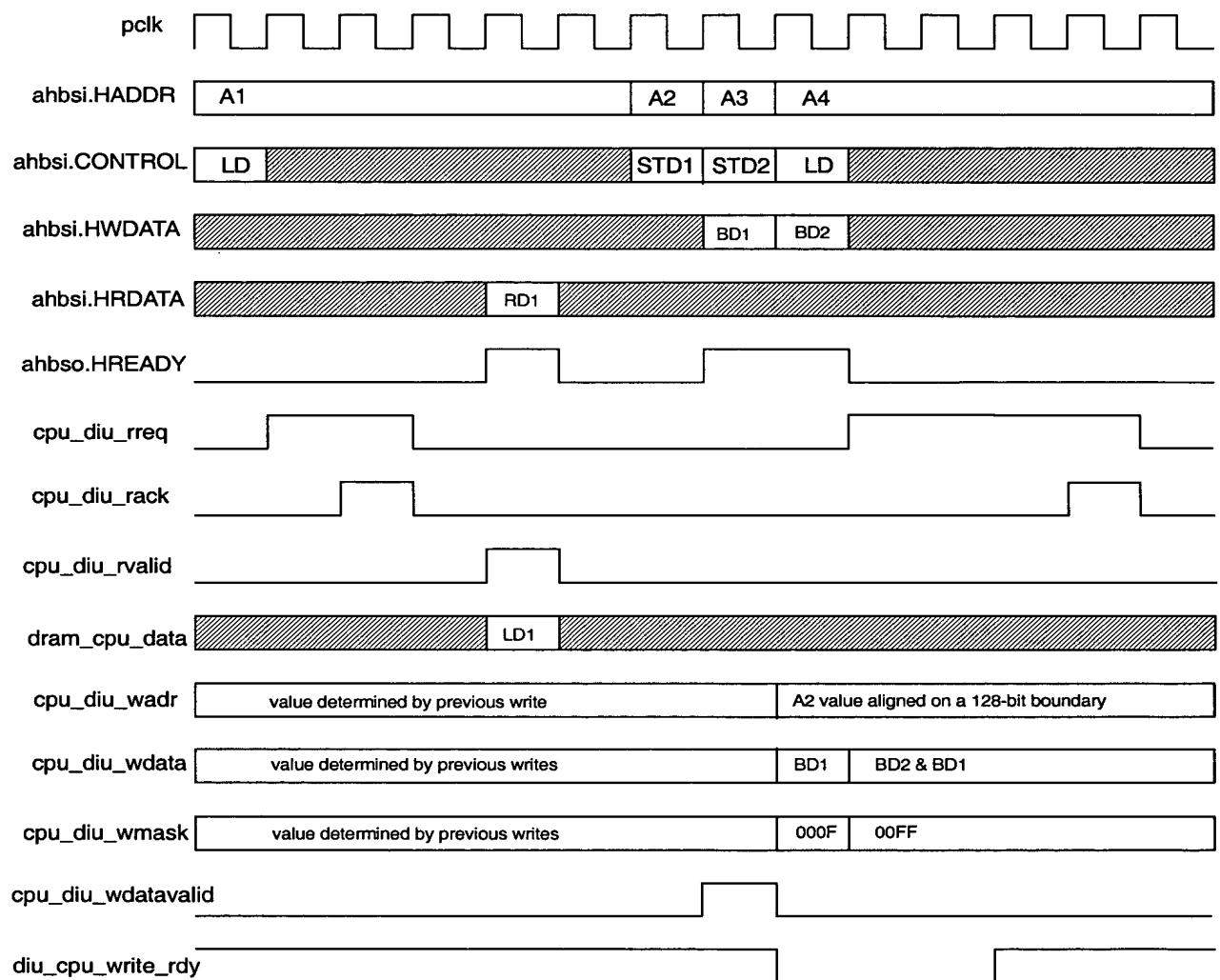


FIG. 22

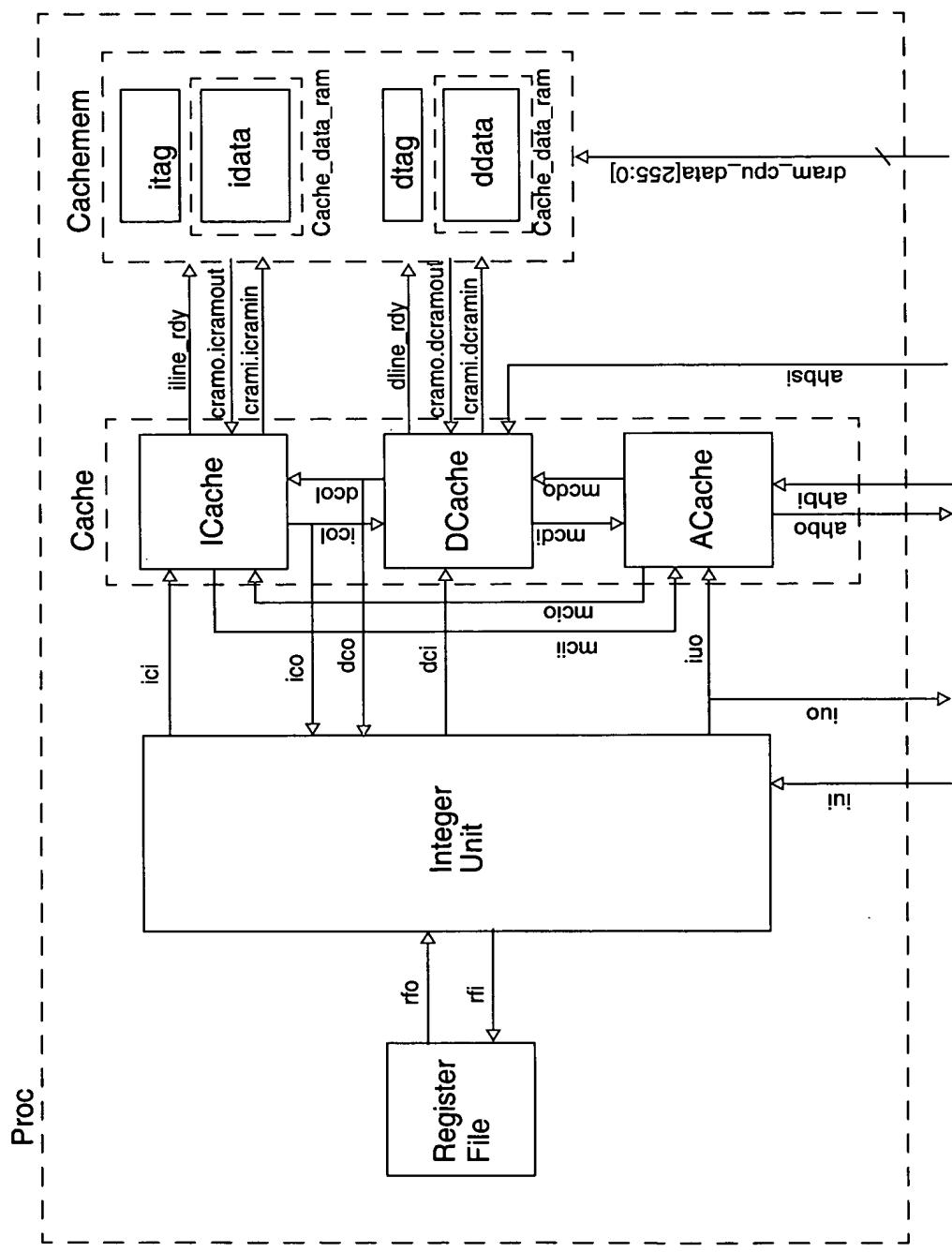
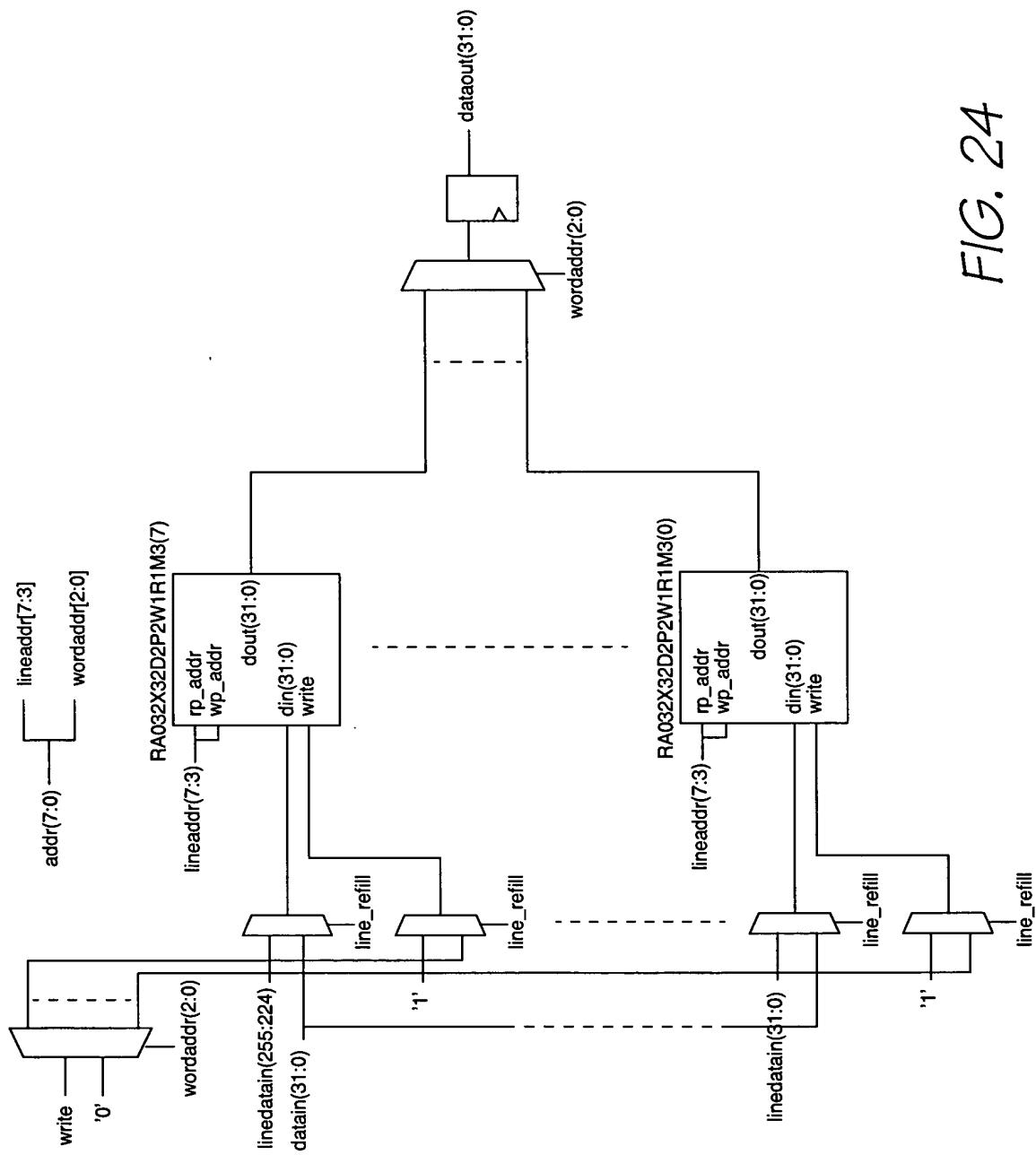
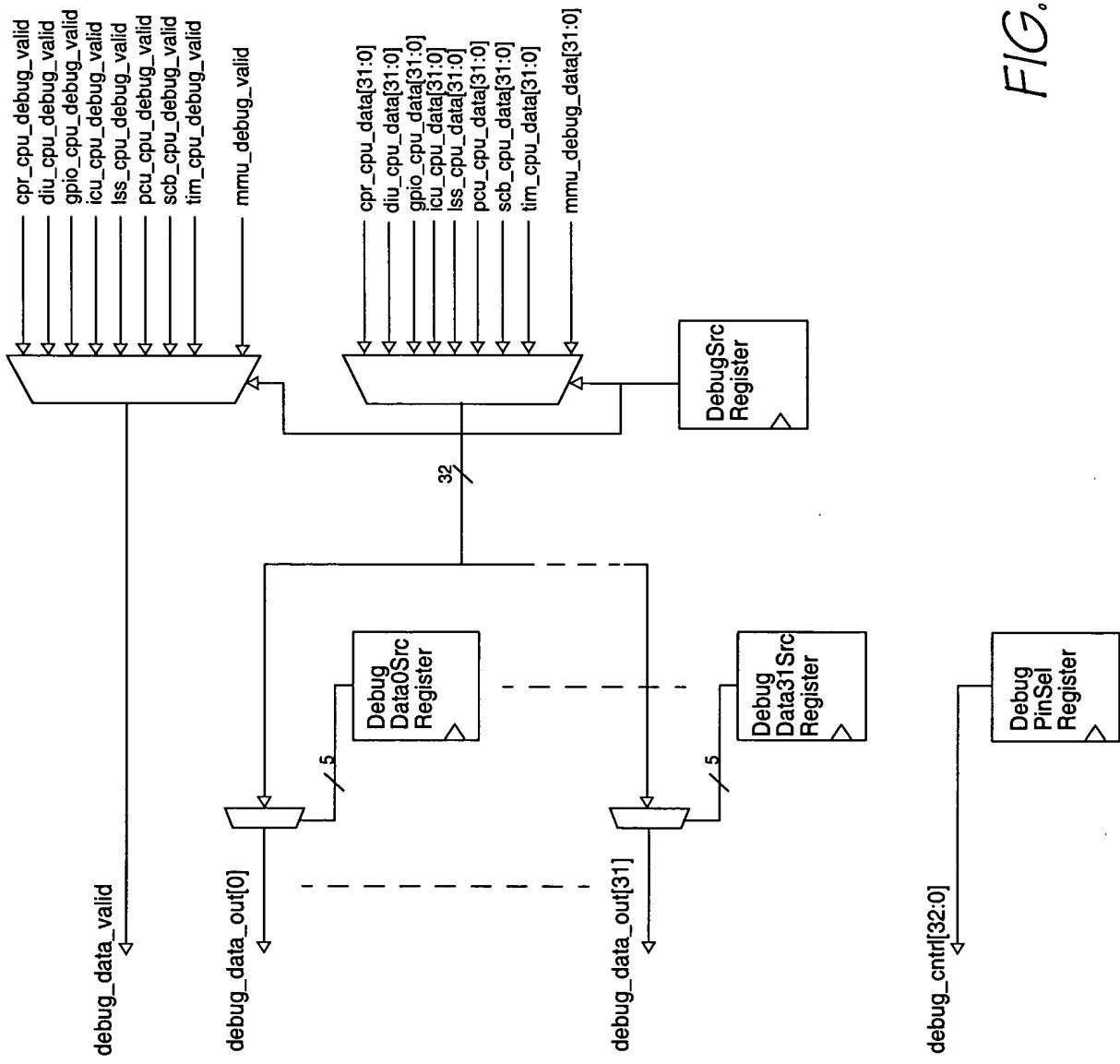


FIG. 23





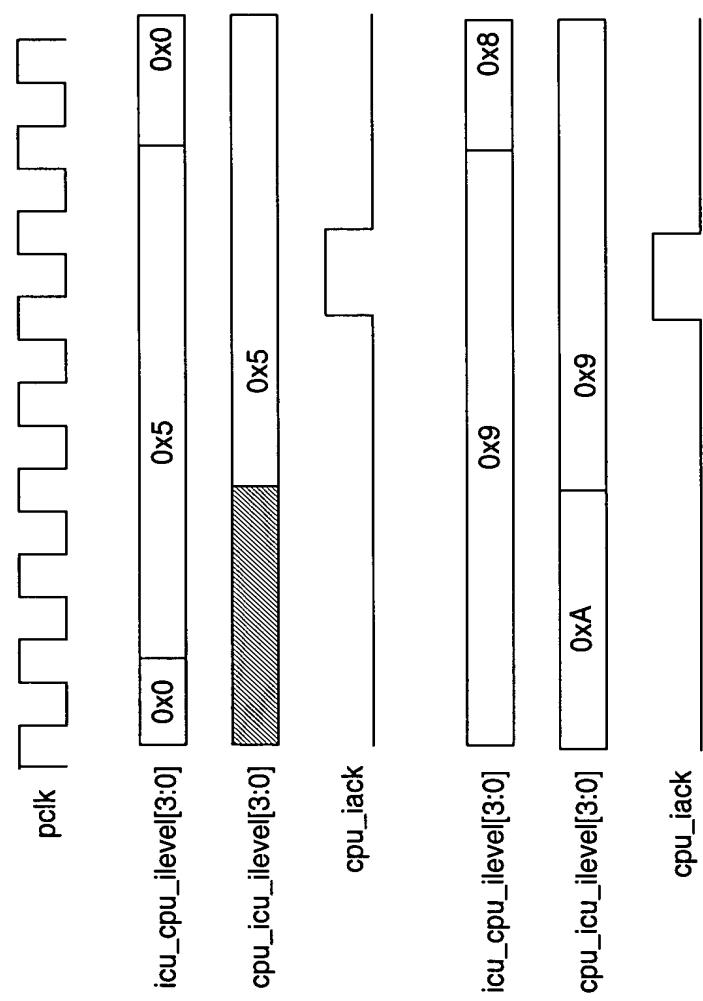


FIG. 26

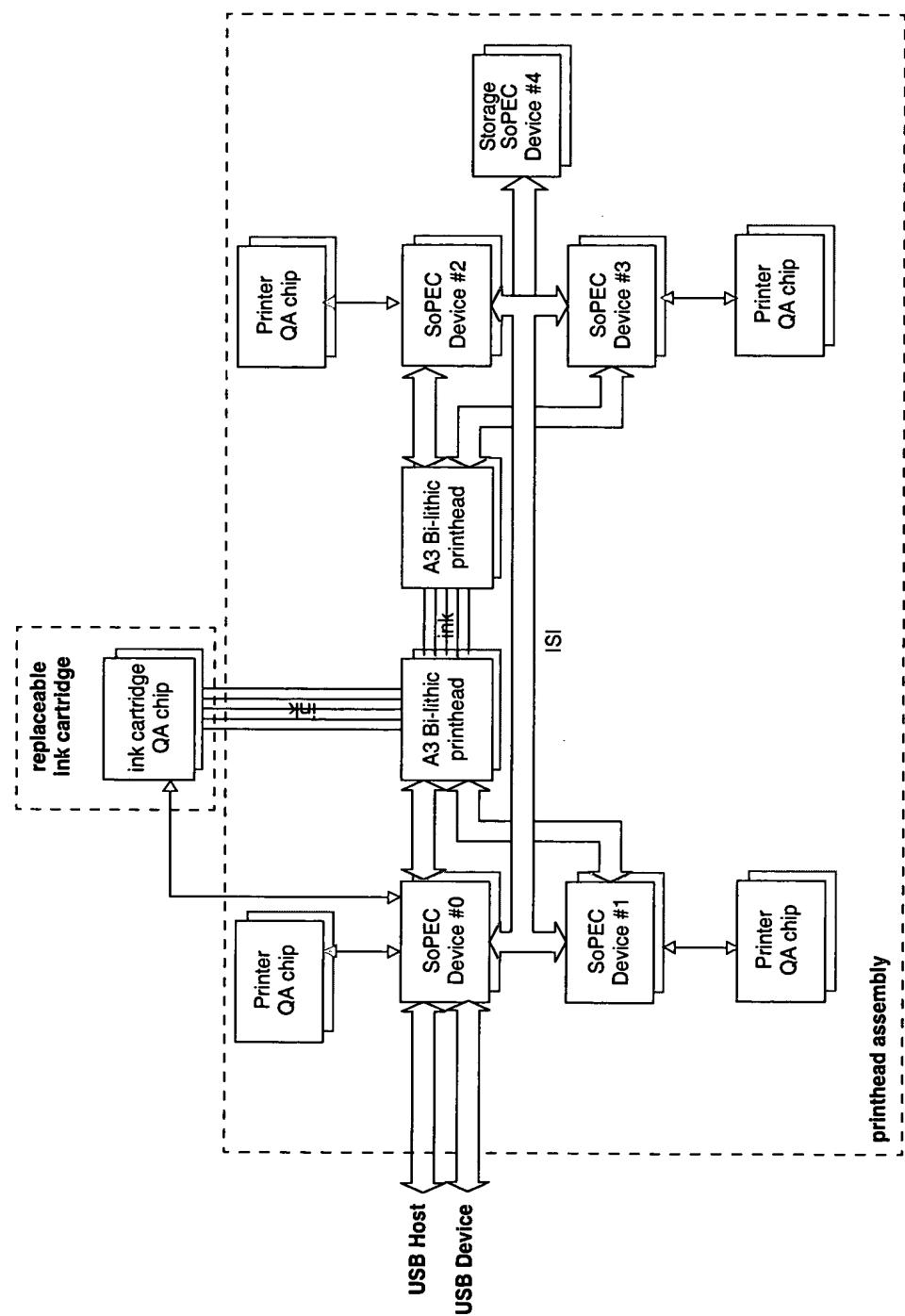


FIG. 27

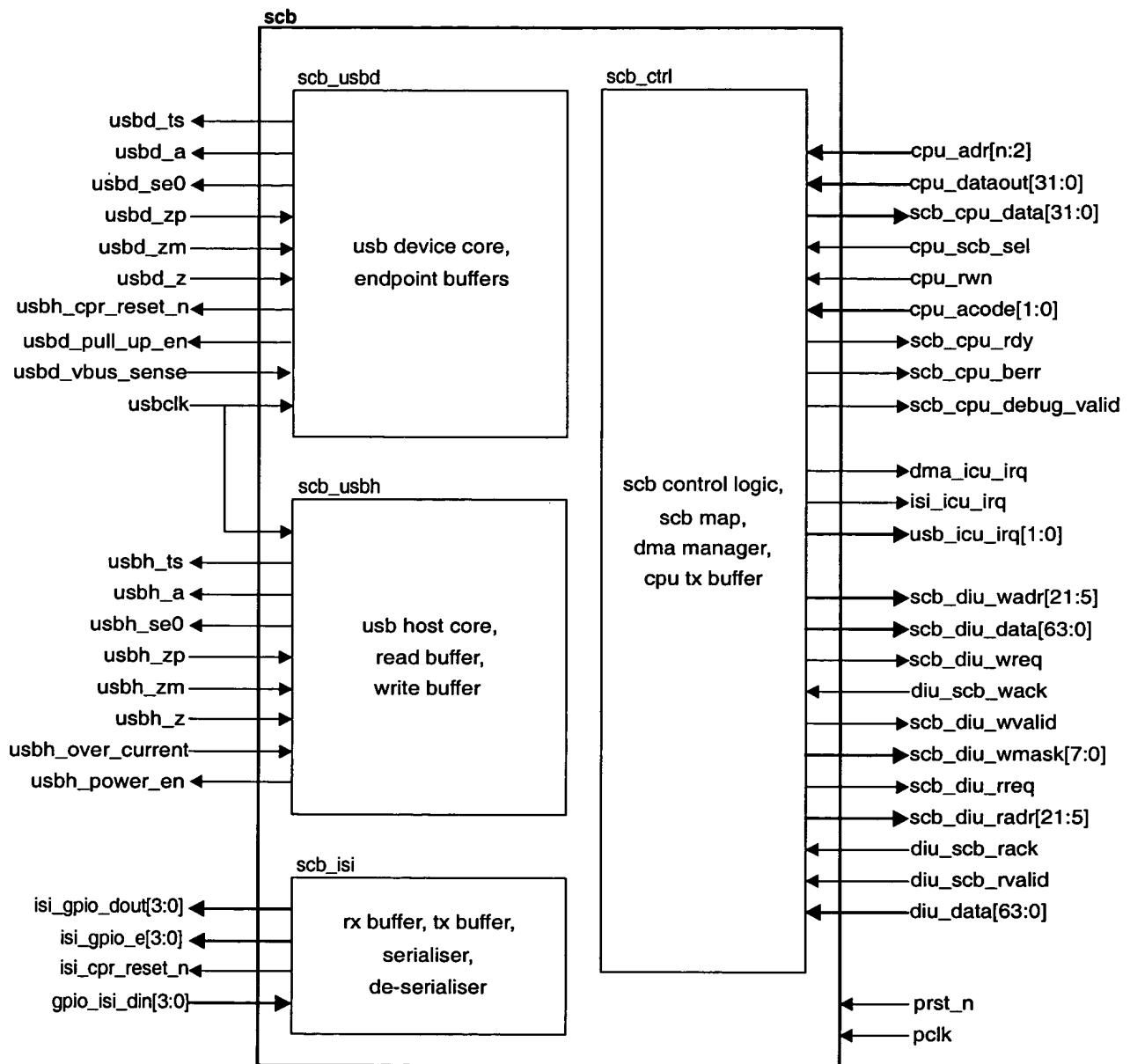


FIG. 28

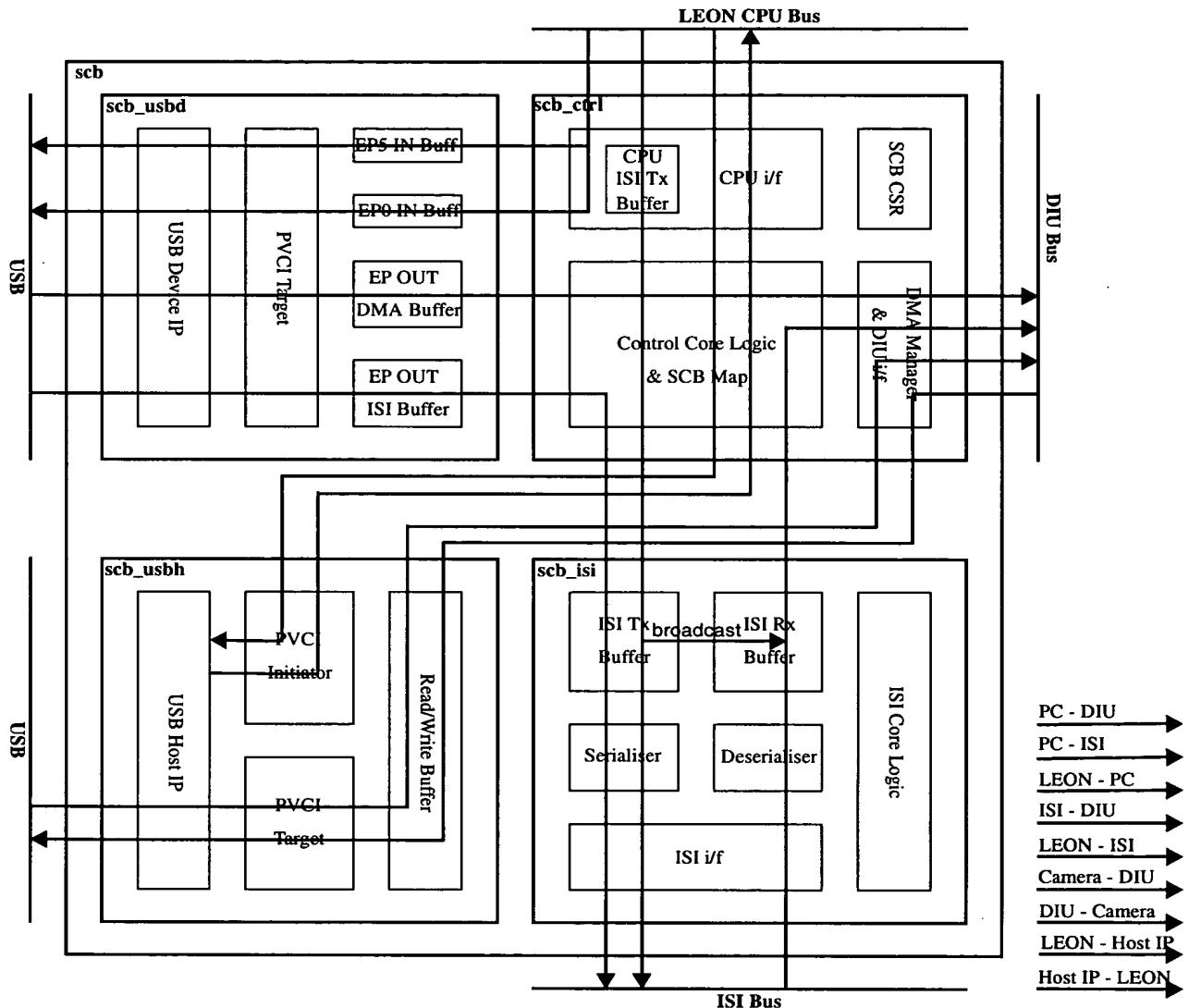


FIG. 29

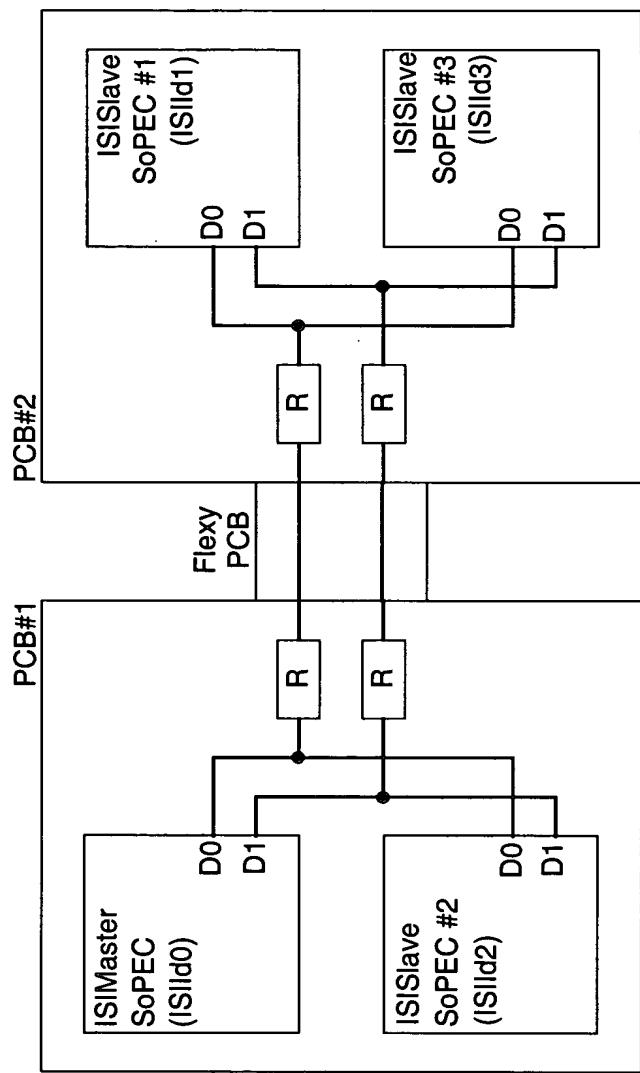


FIG. 30

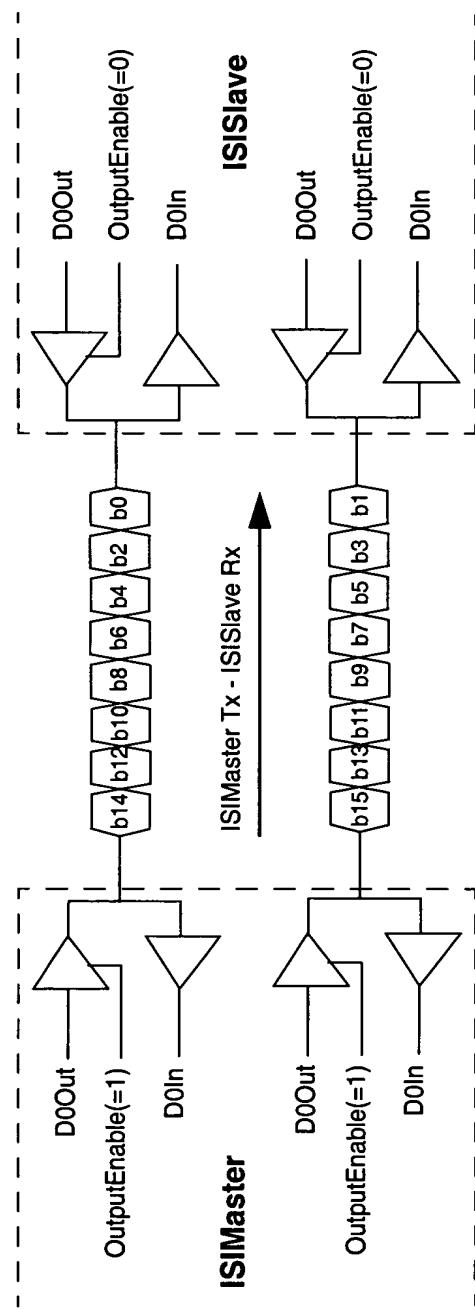
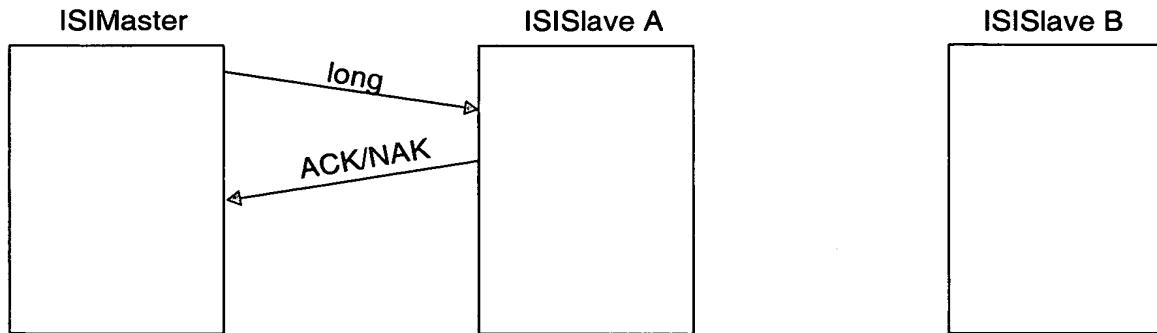
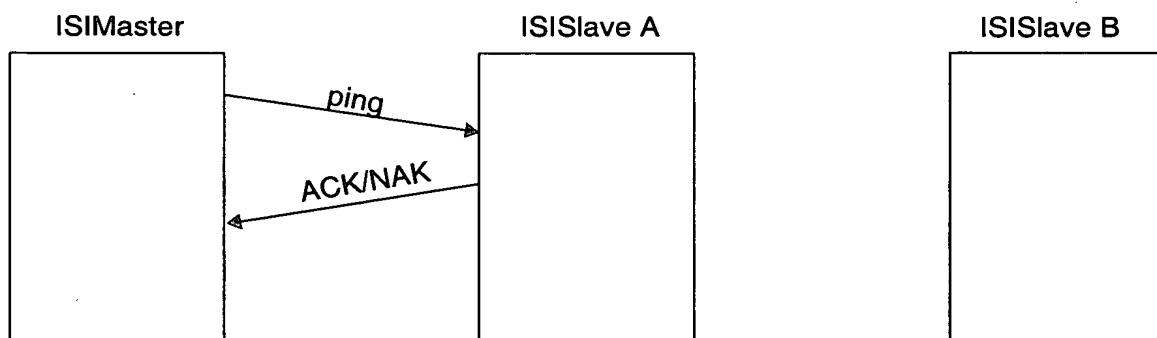


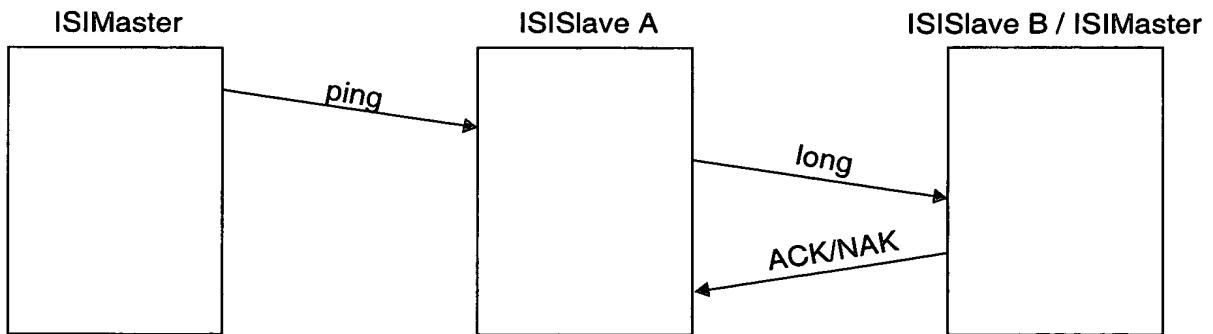
FIG. 31



Transaction 1: Long packet to an addressed ISISSlave



Transaction 2: Ping packet to an addressed ISISSlave. ISISSlave has nothing to send



Transaction 3: Ping packet to an addressed ISISSlave. ISISSlaveA responds with a long packet to ISISSlaveB (or the ISIMaster) and ISISSlaveB (or the ISIMaster) responds with an ACK or NAK.

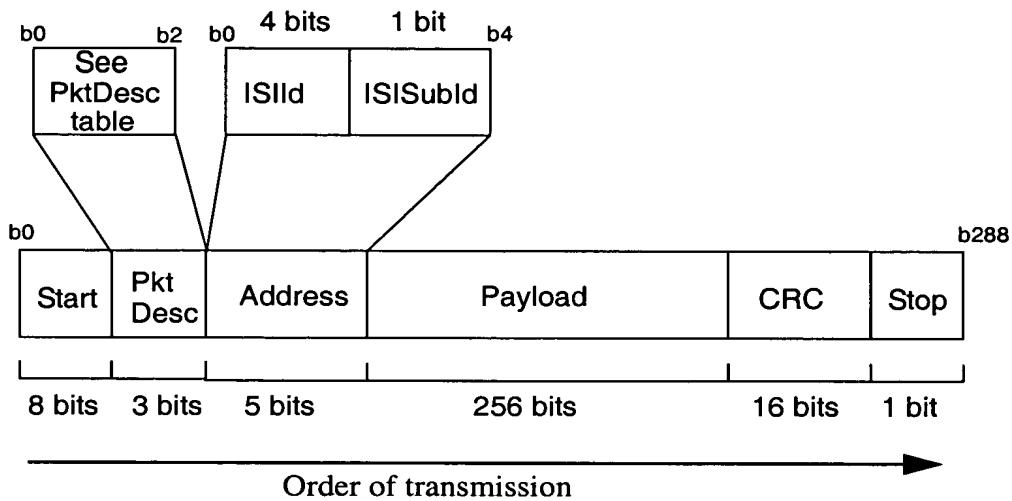


FIG. 33

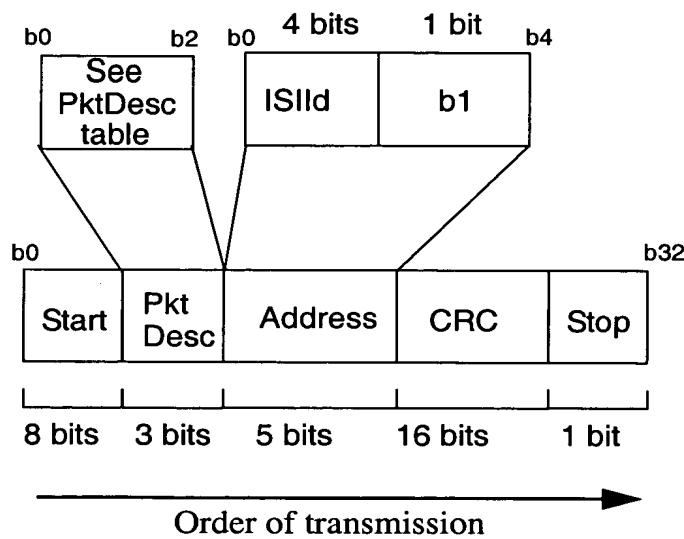


FIG. 34

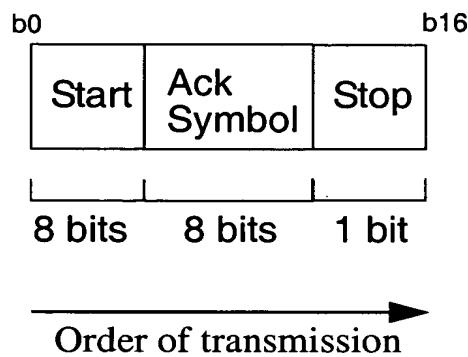


FIG. 35

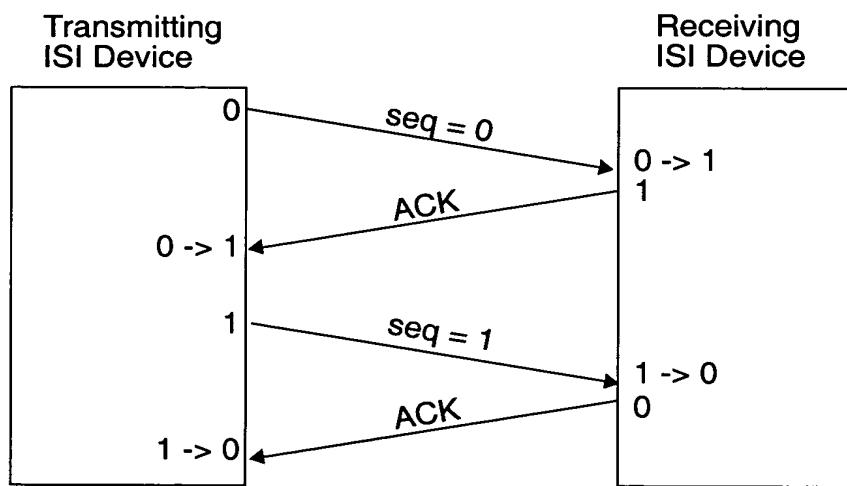


FIG. 36

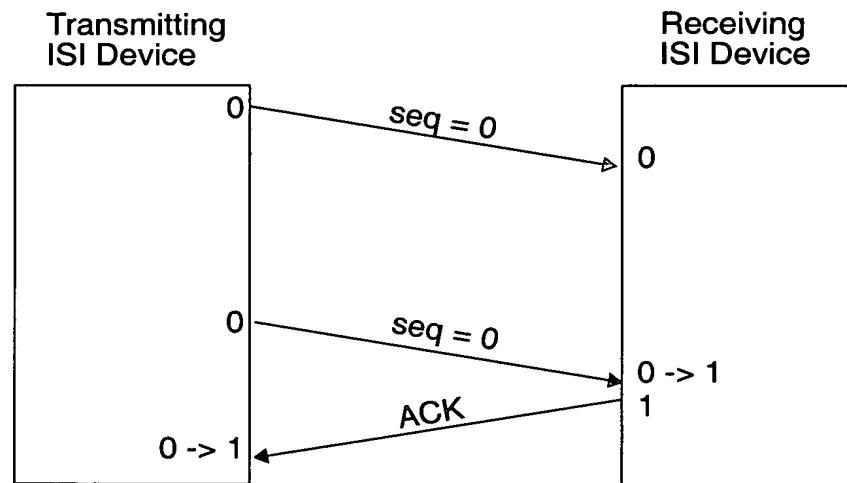


FIG. 37

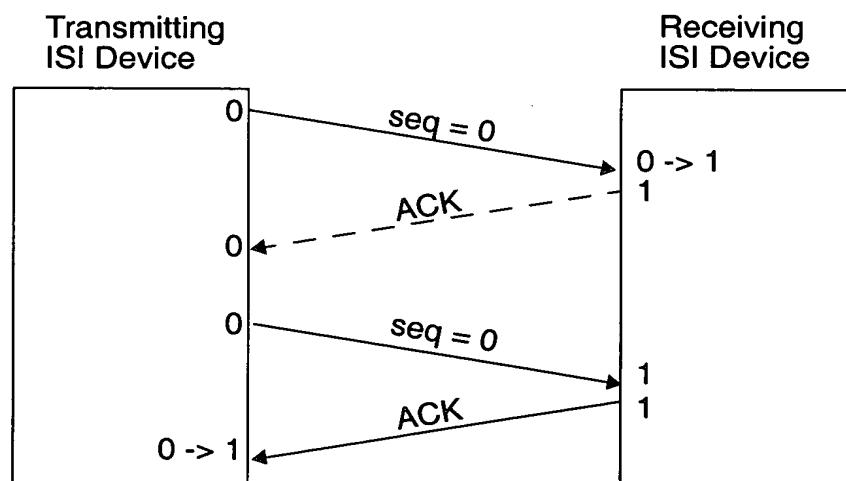


FIG. 38

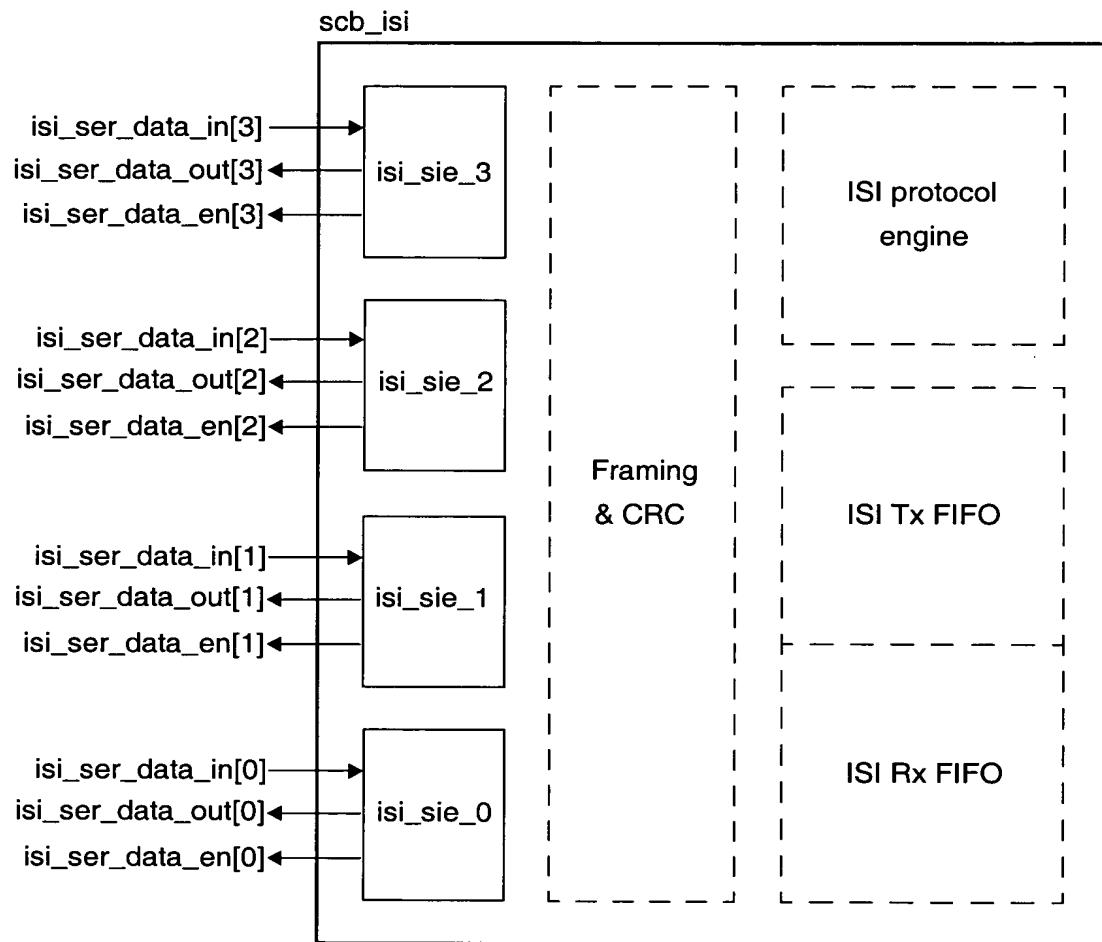


FIG. 39

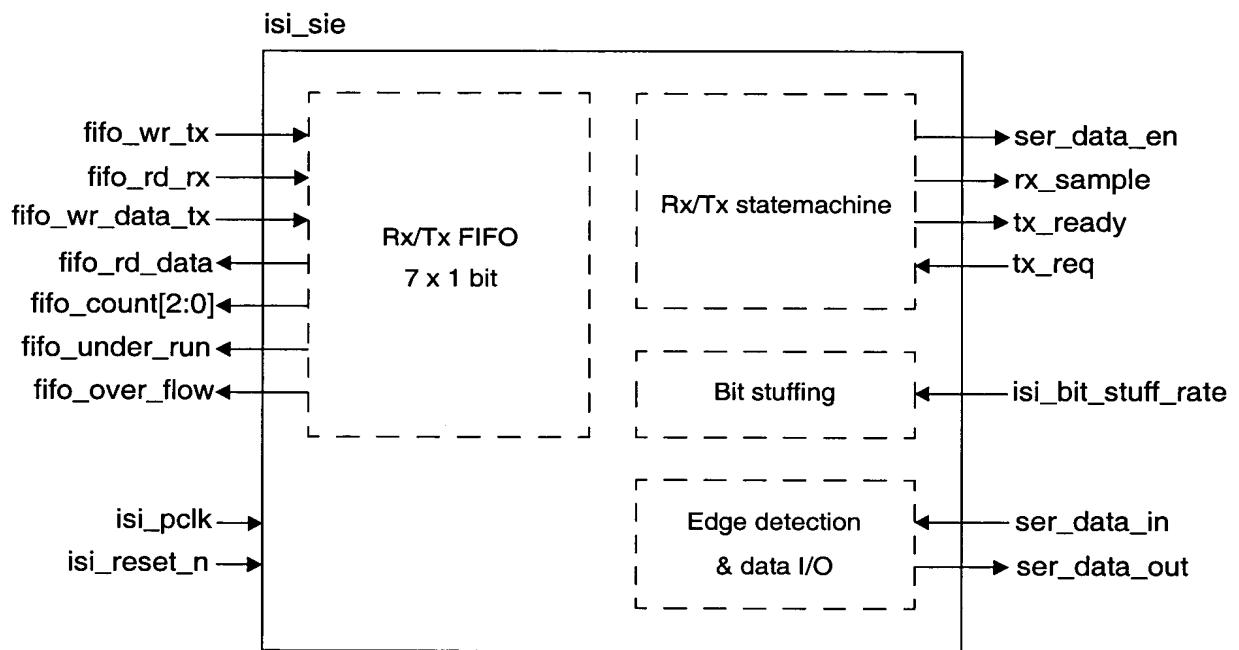


FIG. 40

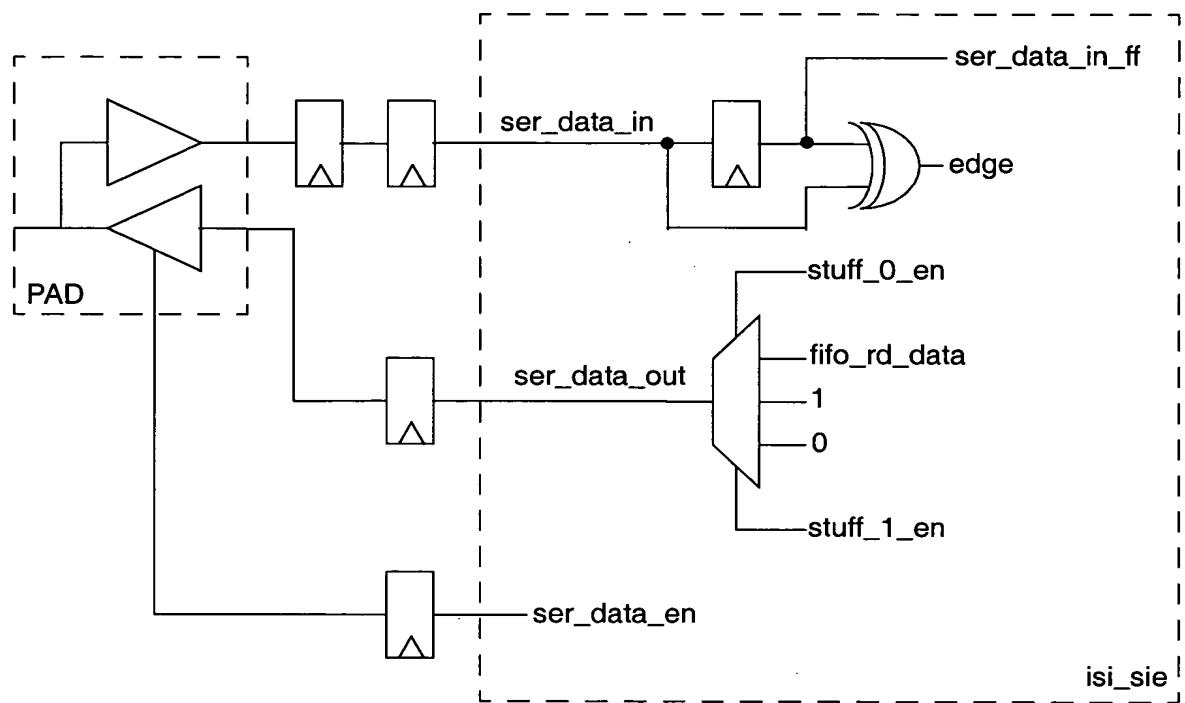


FIG. 41

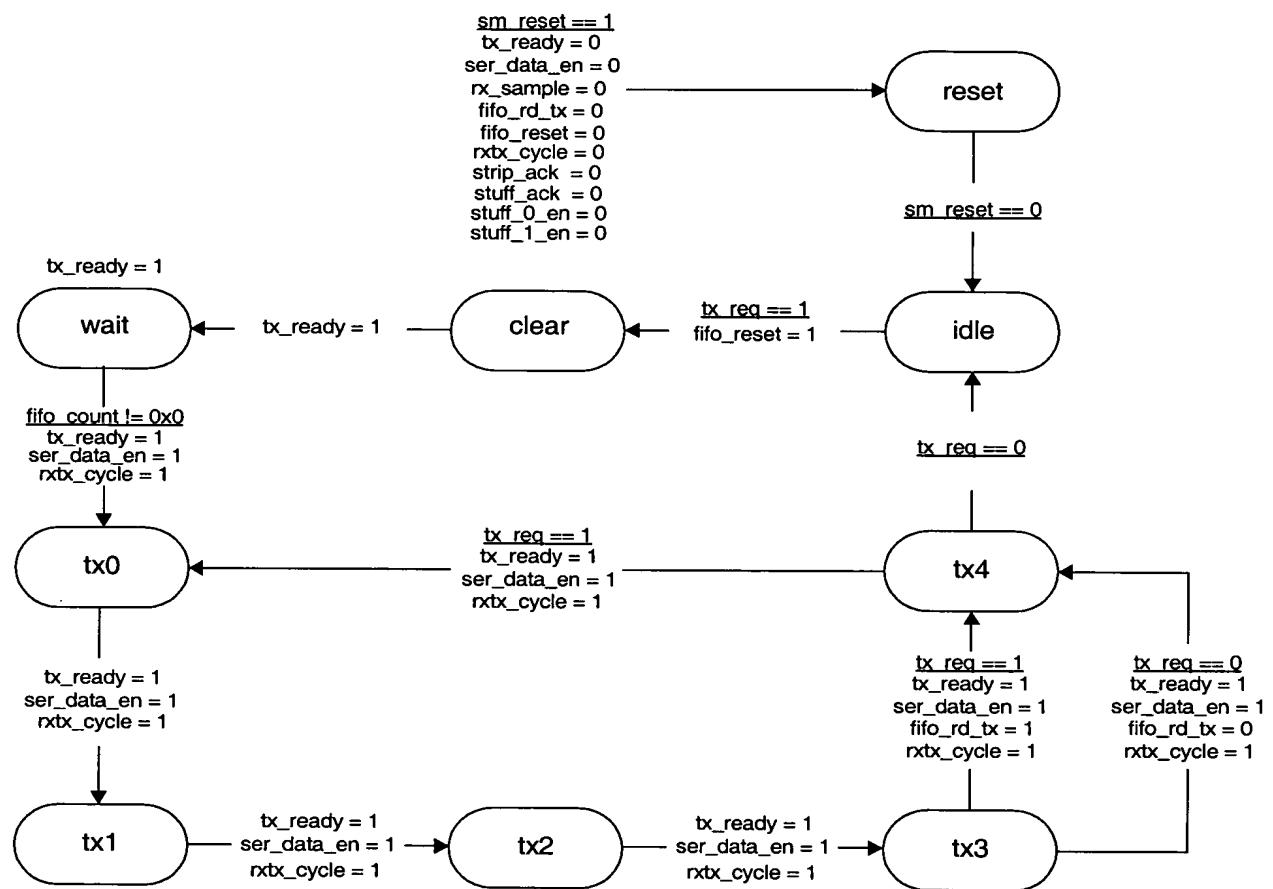


FIG. 42

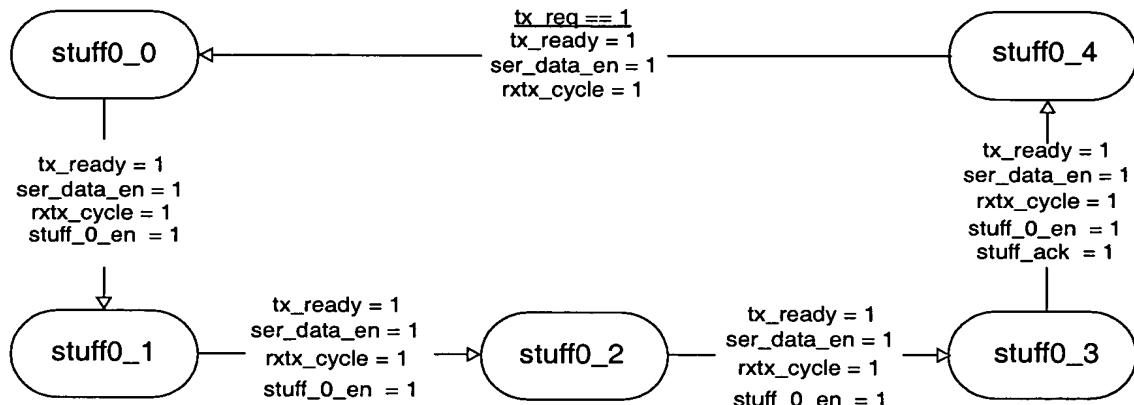


FIG. 43

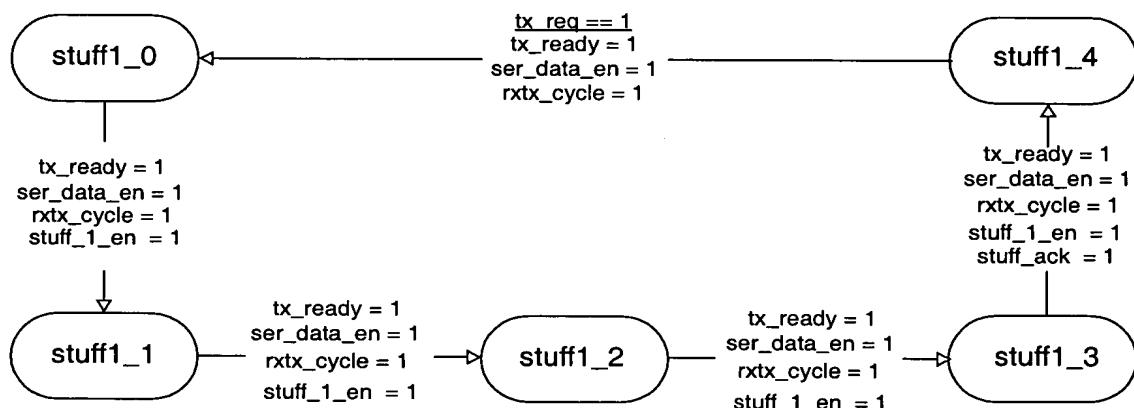


FIG. 44

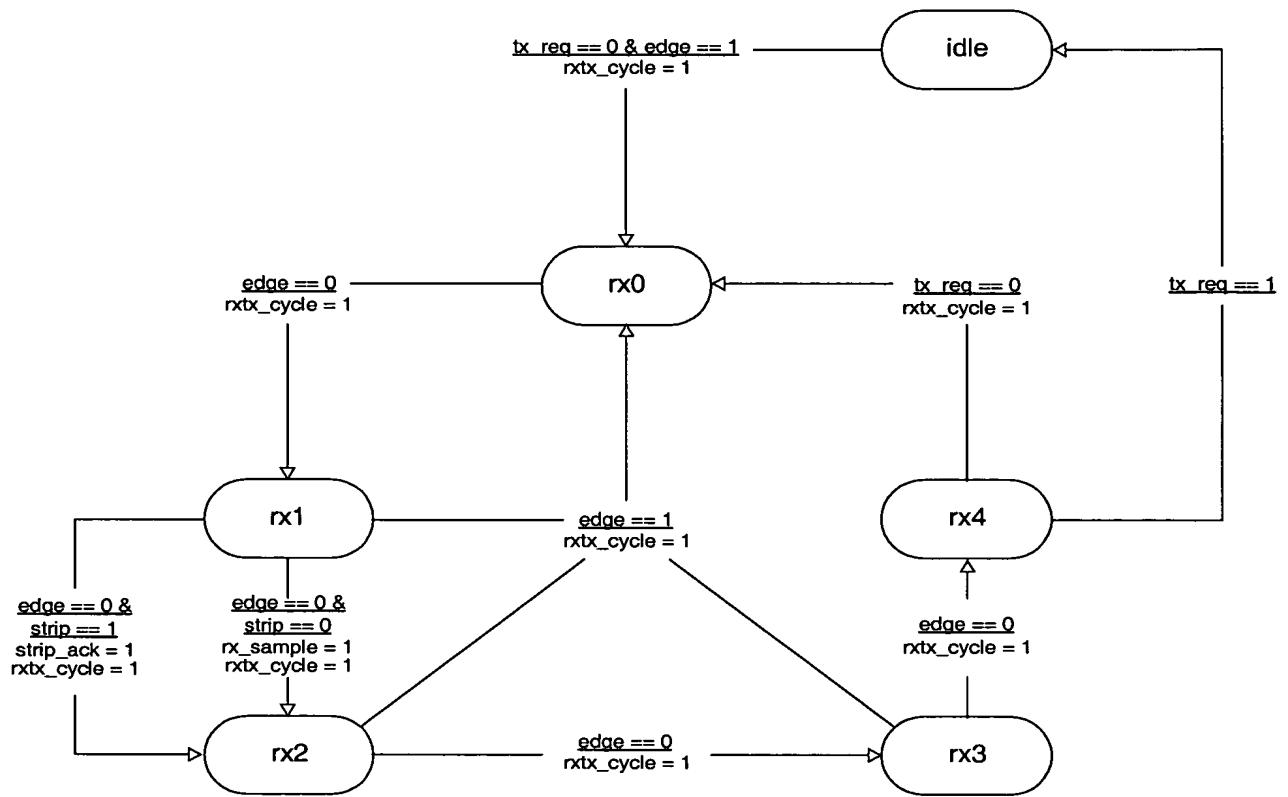


FIG. 45

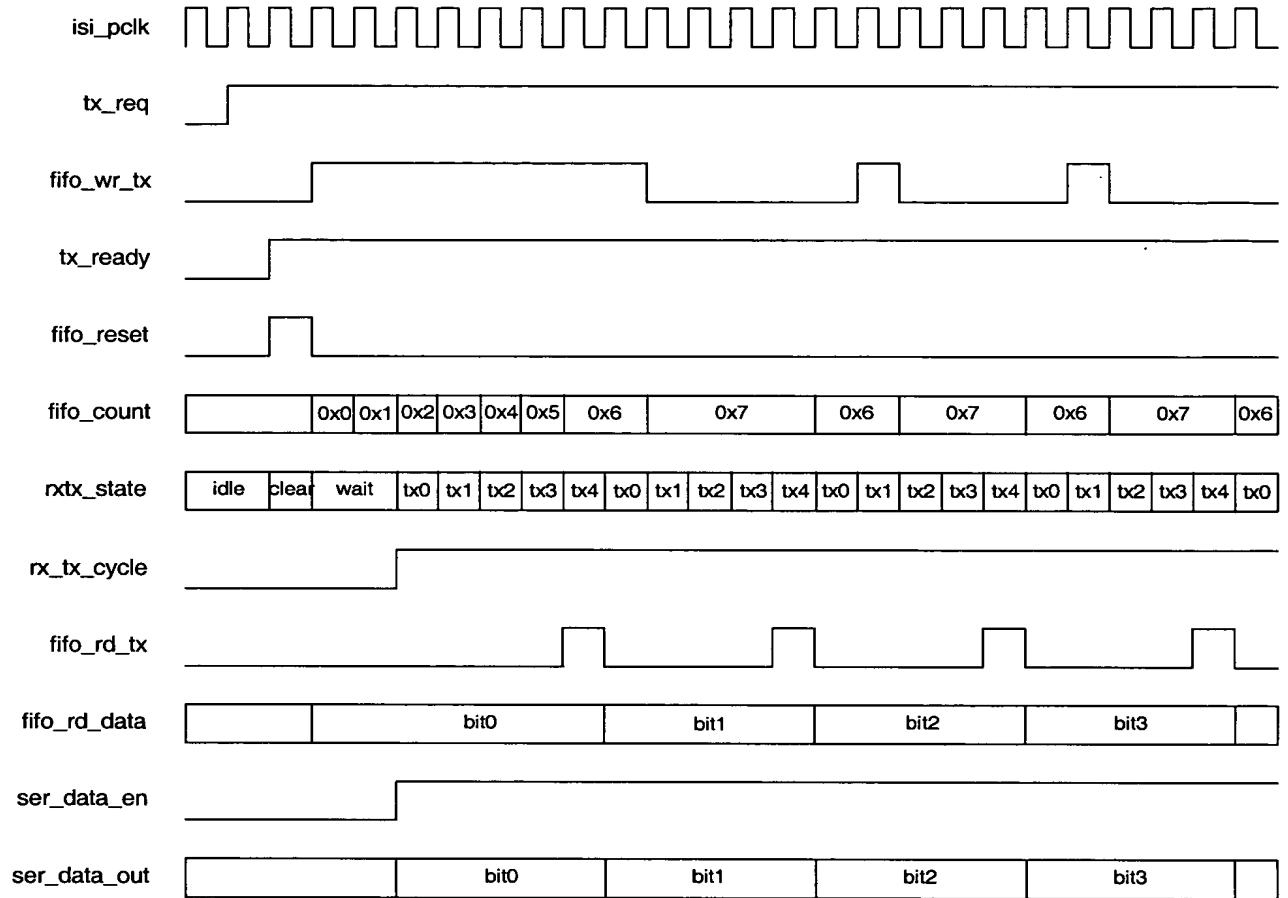


FIG. 46

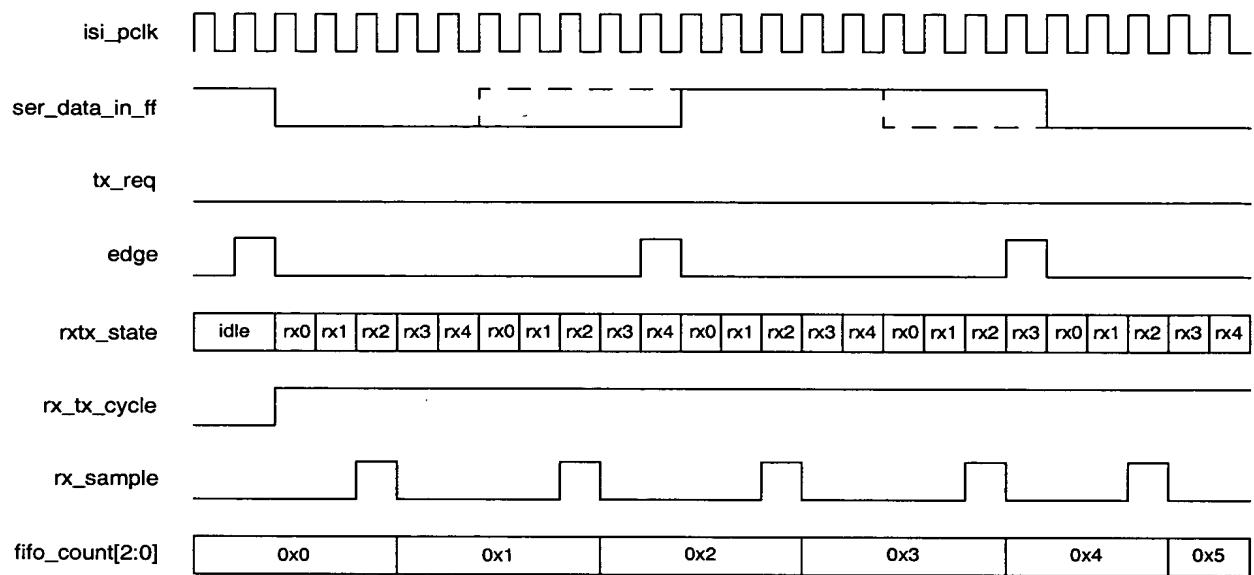


FIG. 47

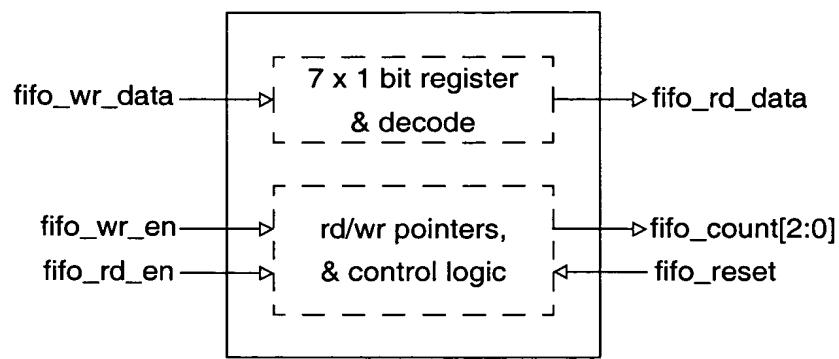


FIG. 48

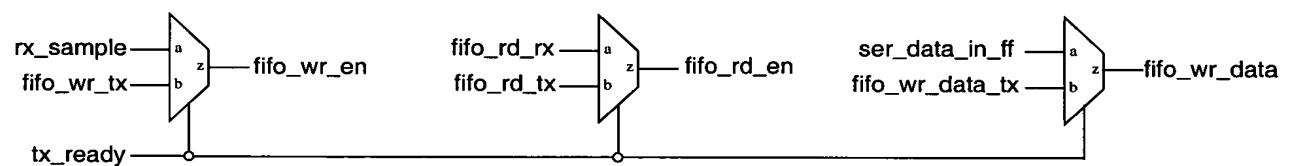


FIG. 49

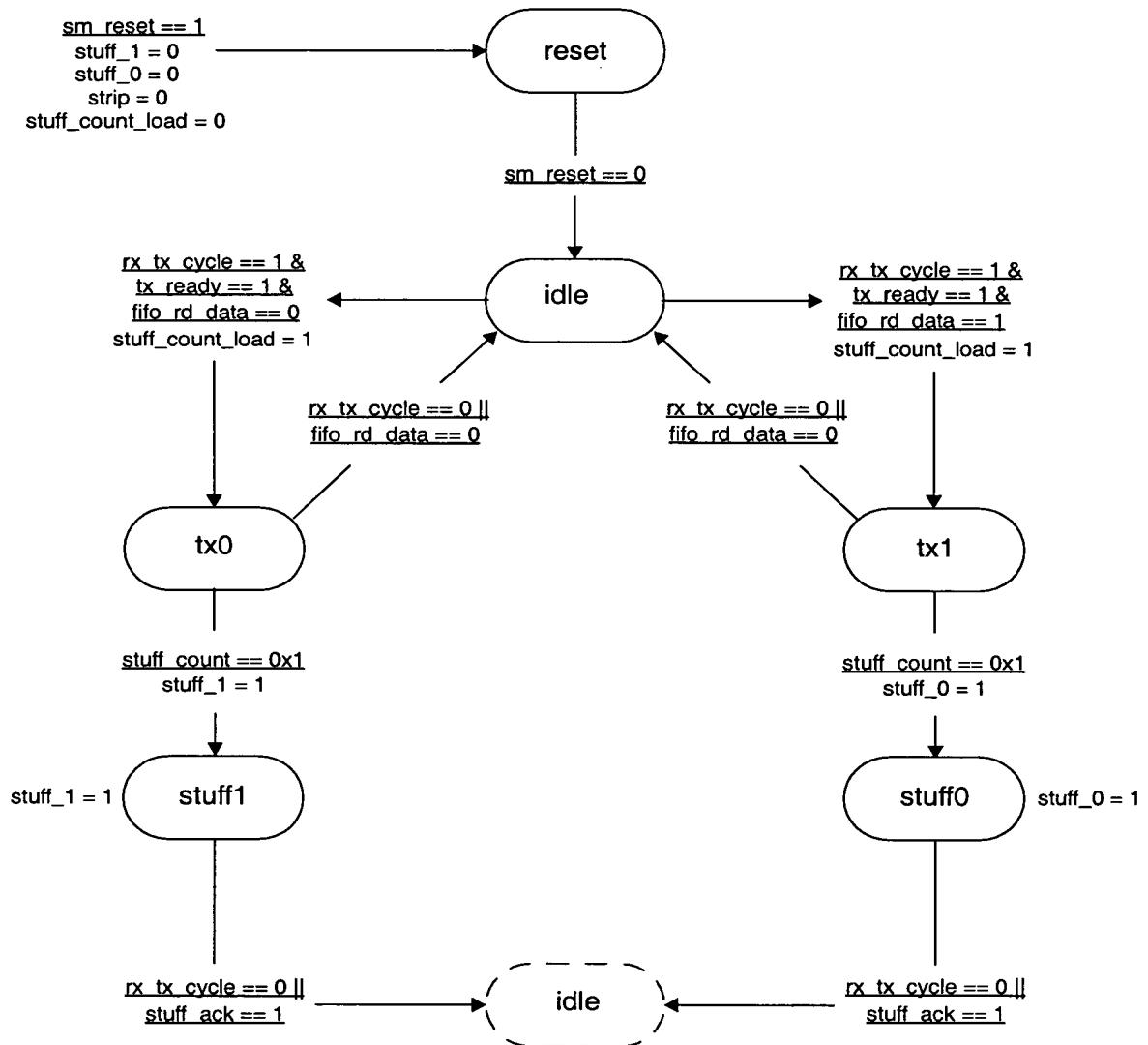


FIG. 50

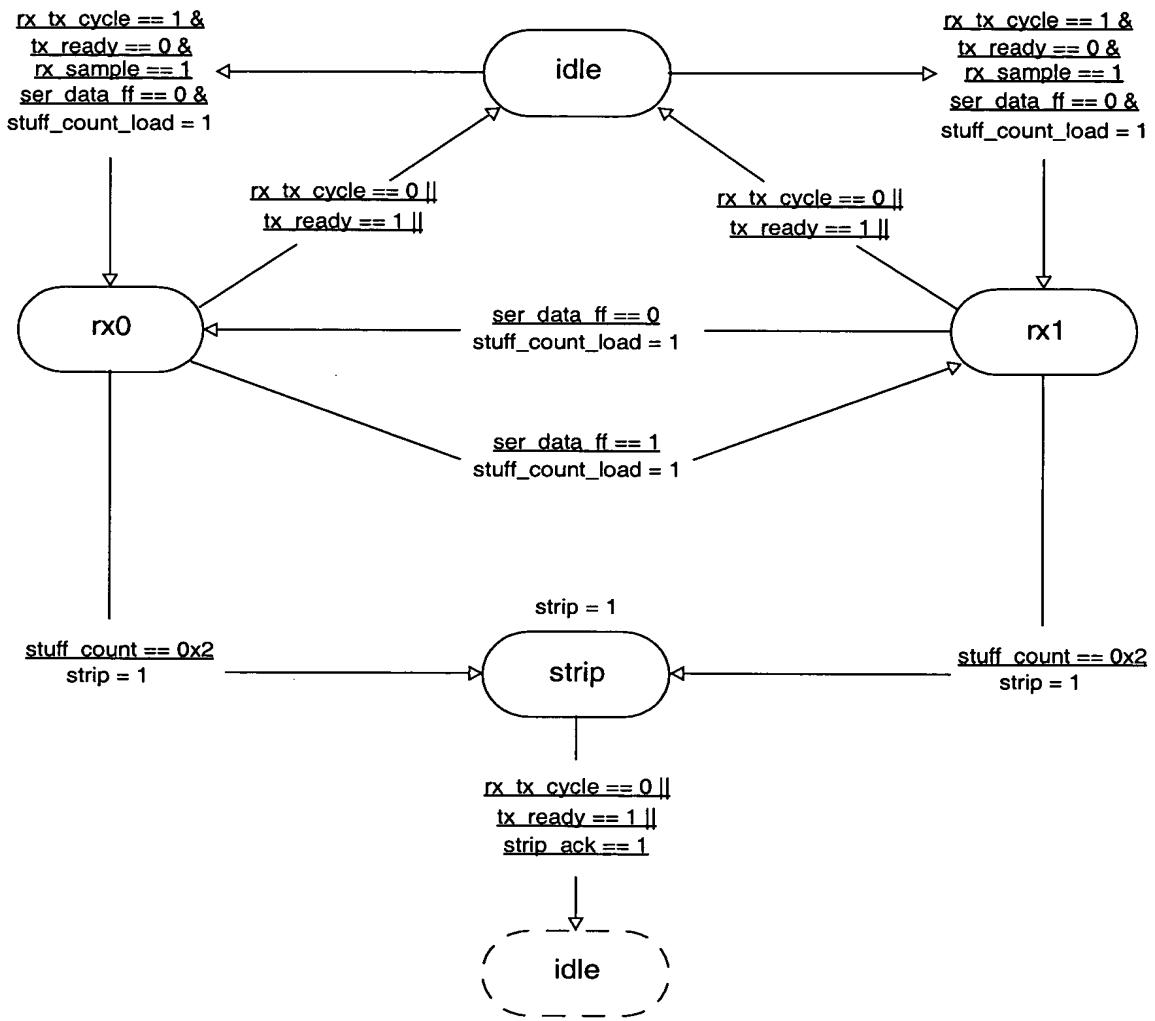


FIG. 51

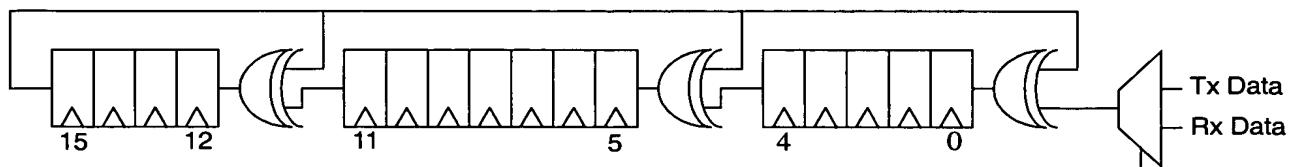


FIG. 52

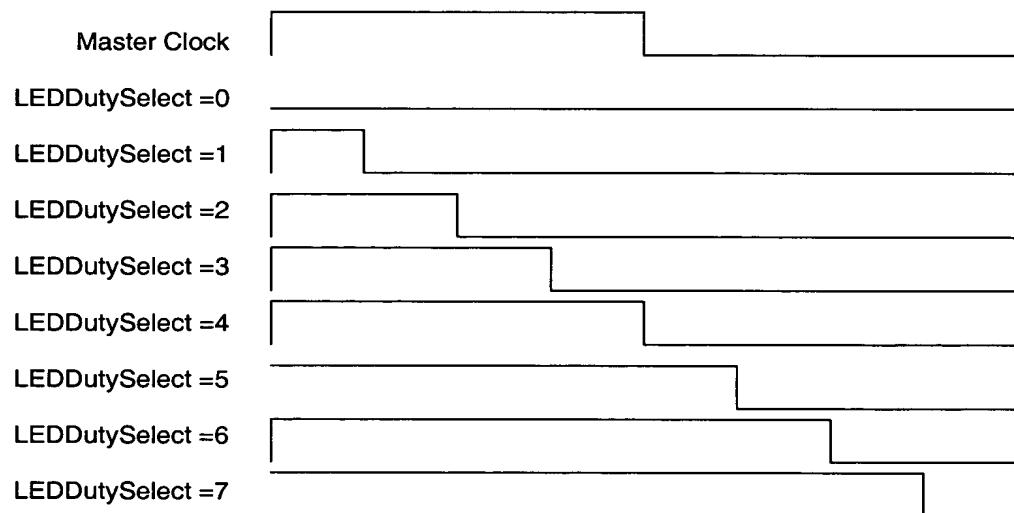


FIG. 54

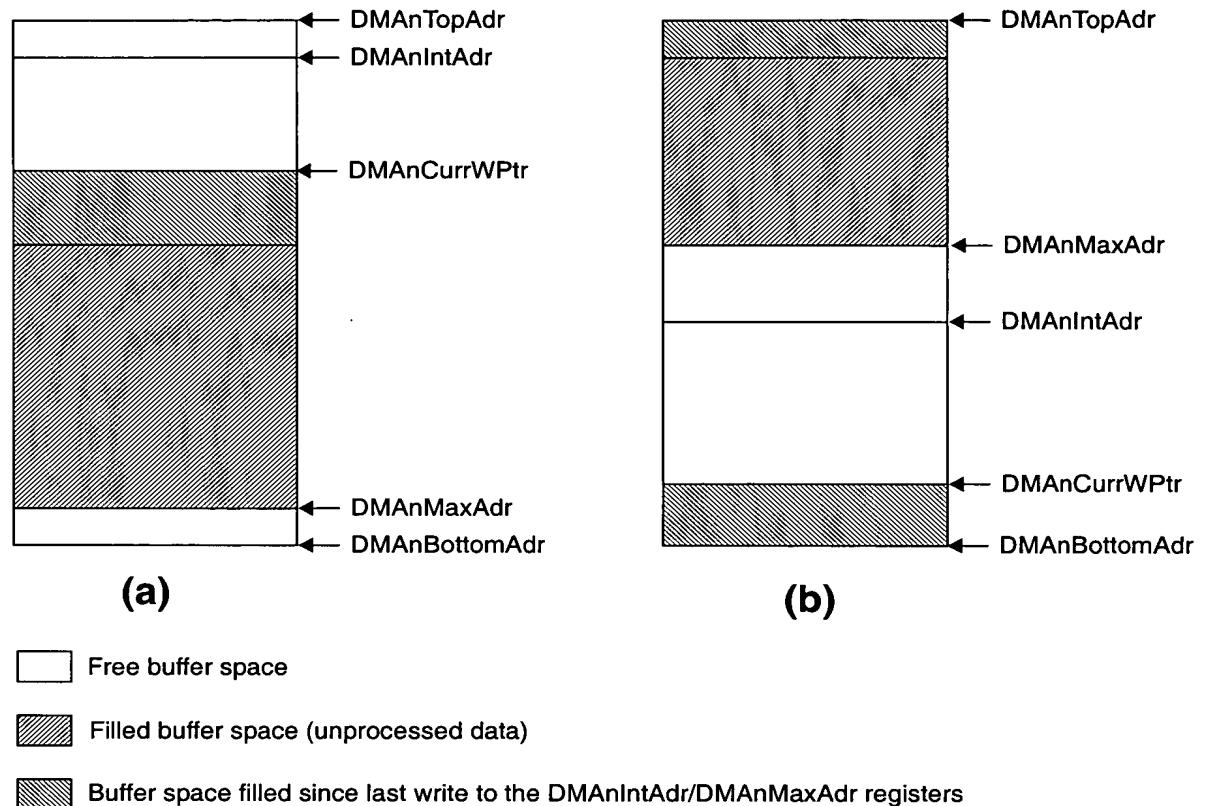


FIG. 53

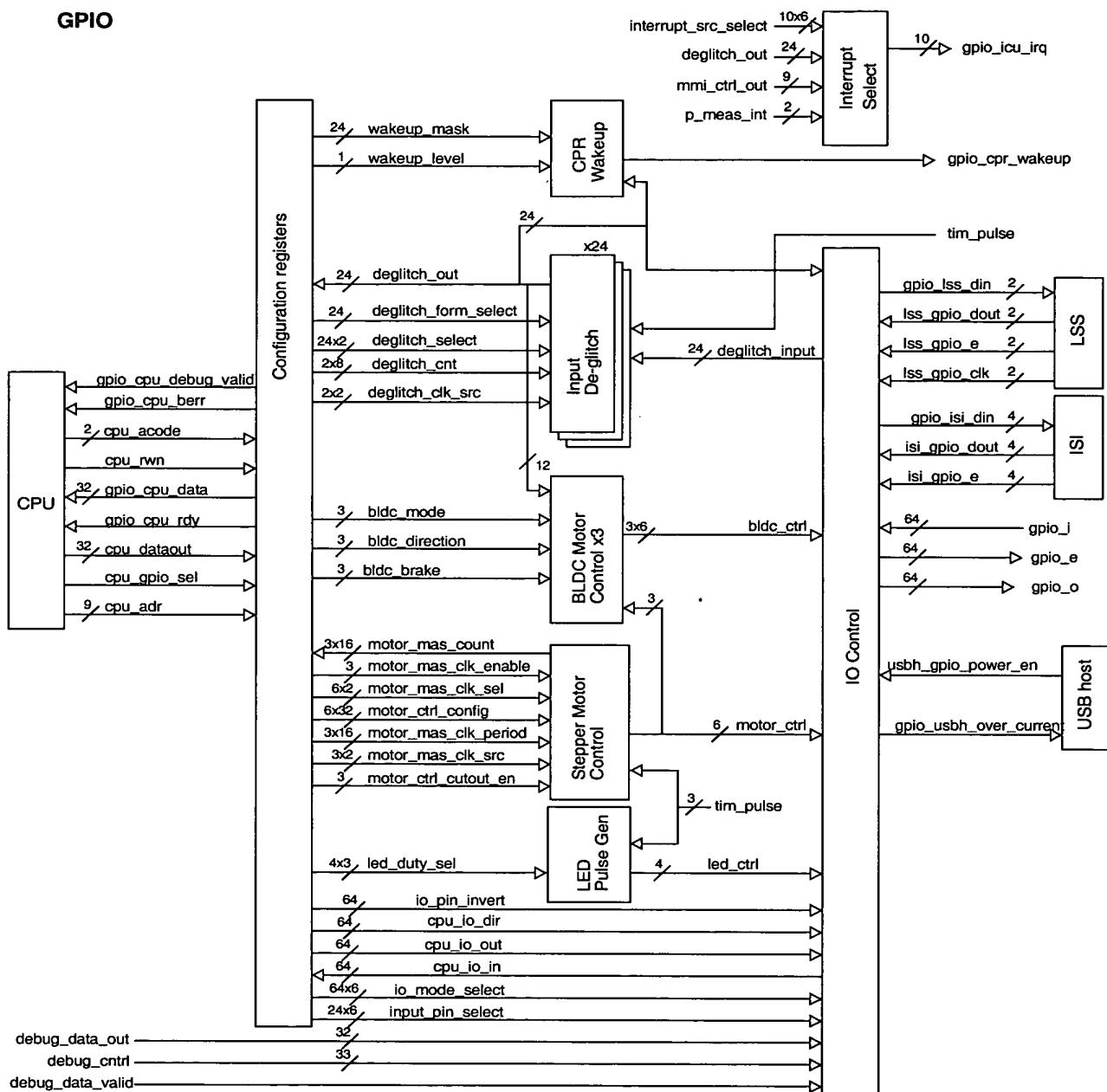


FIG. 55

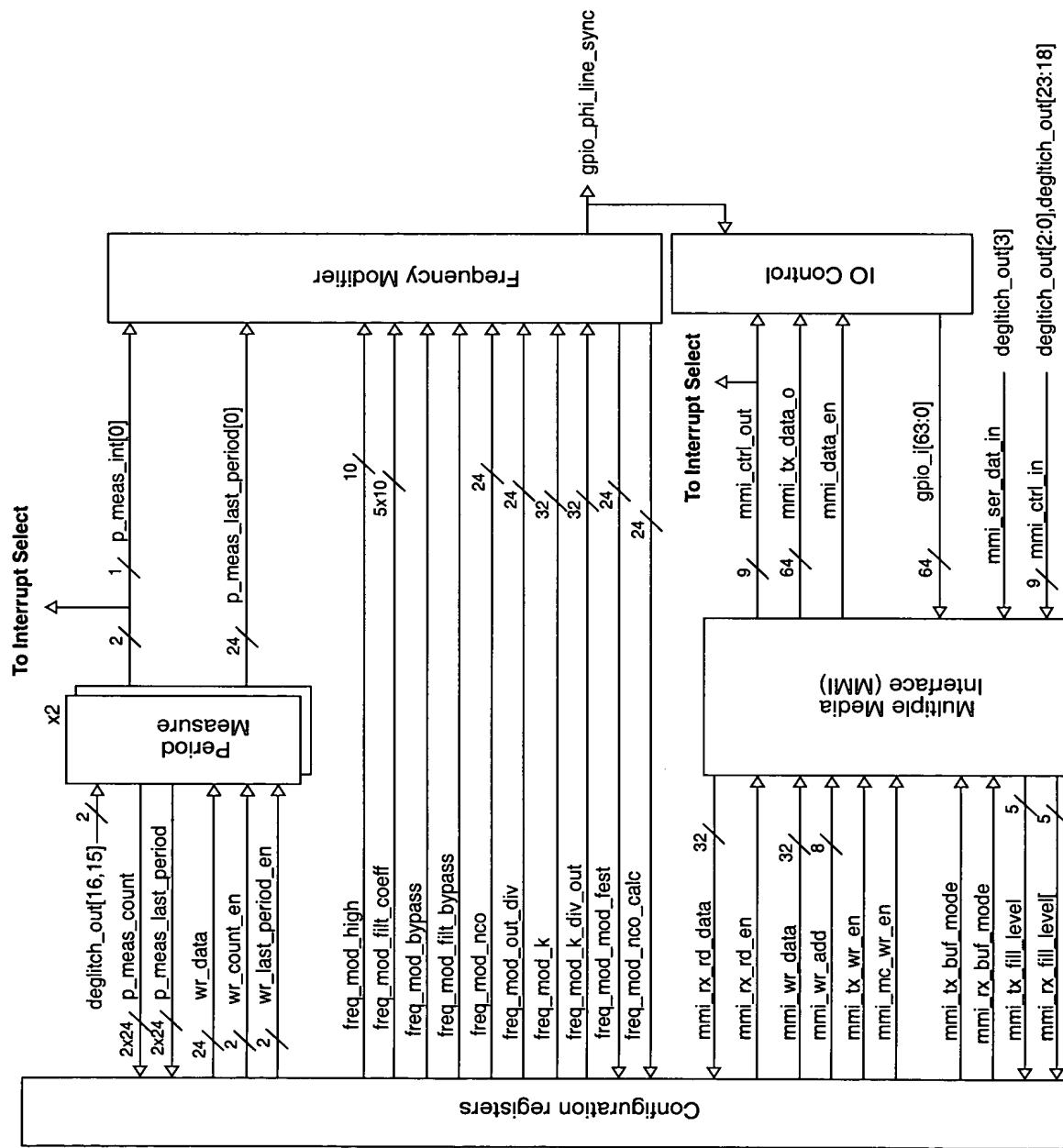


FIG. 56

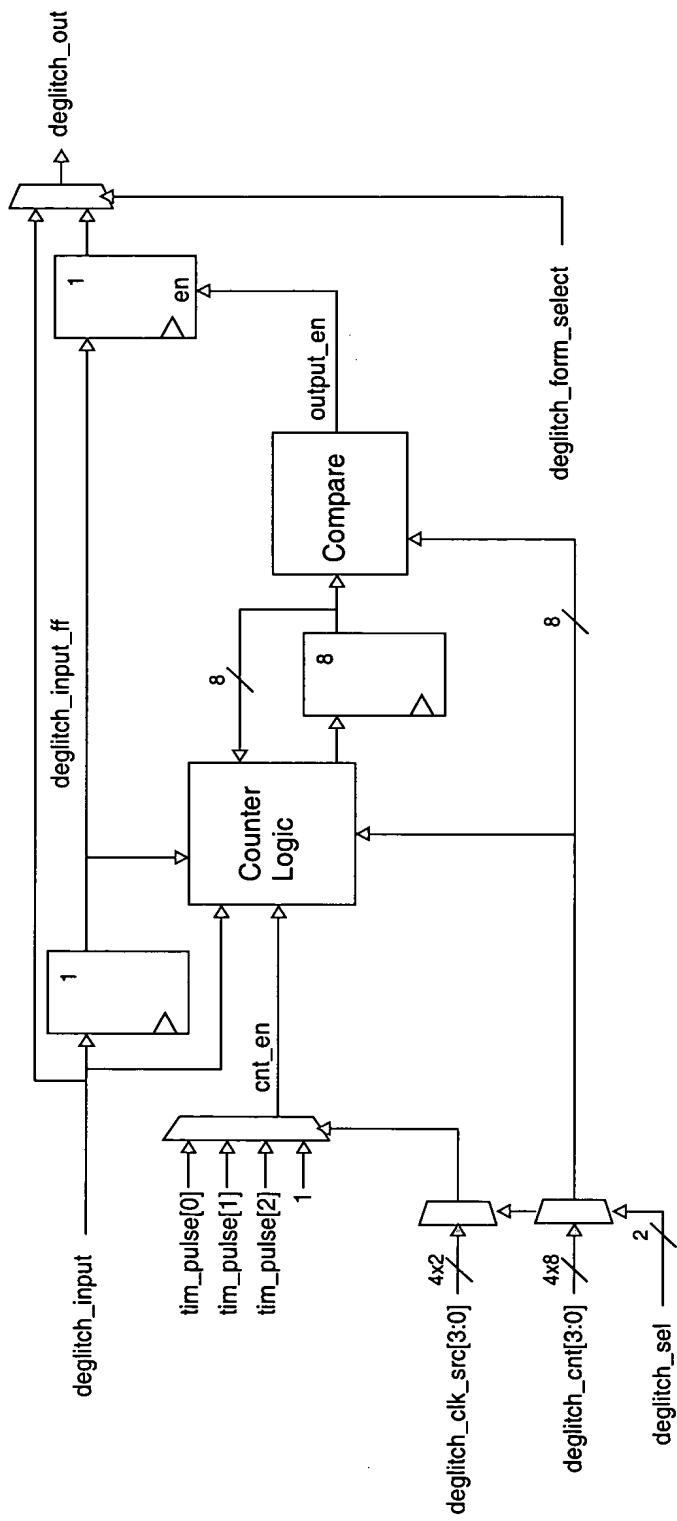


FIG. 57

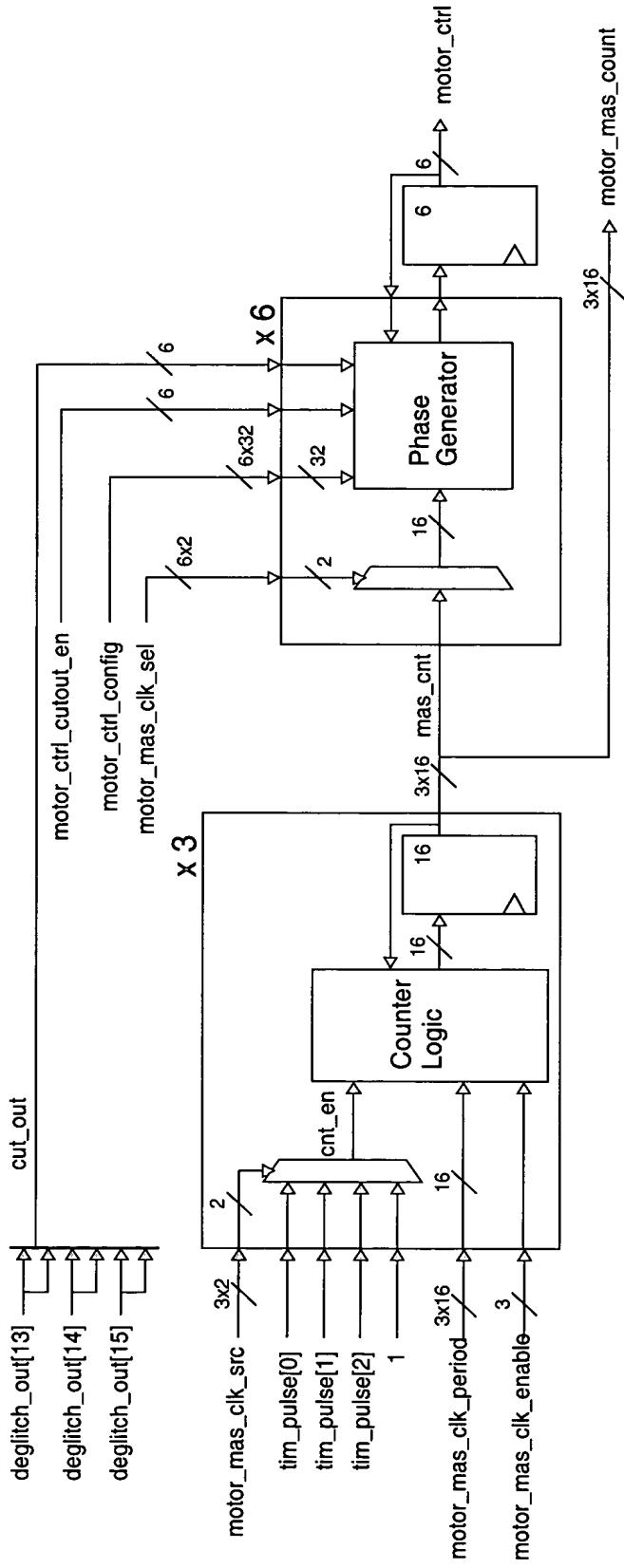


FIG. 58

FIG. 59

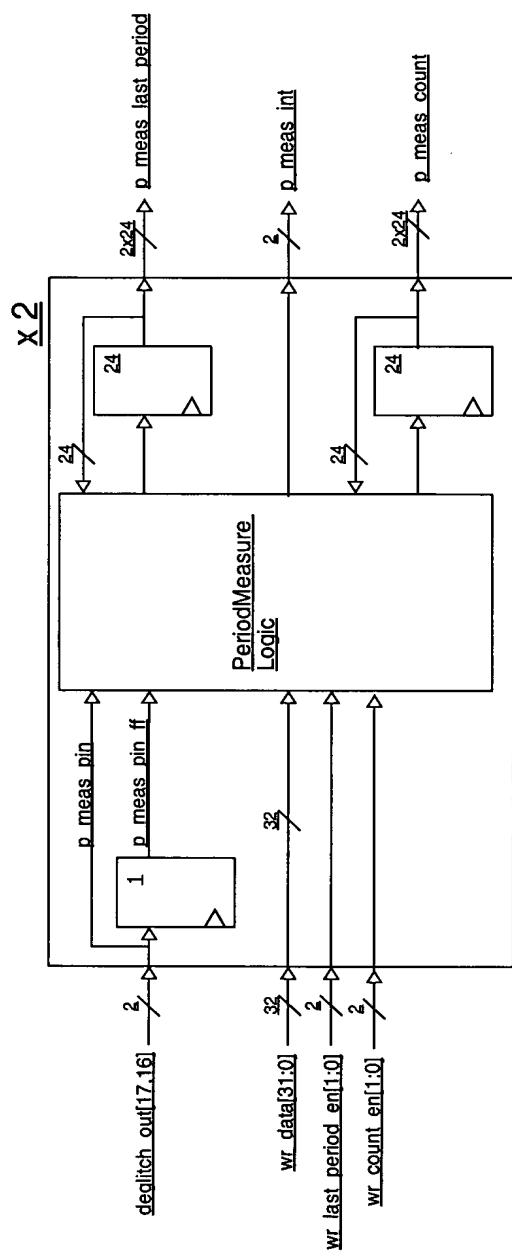
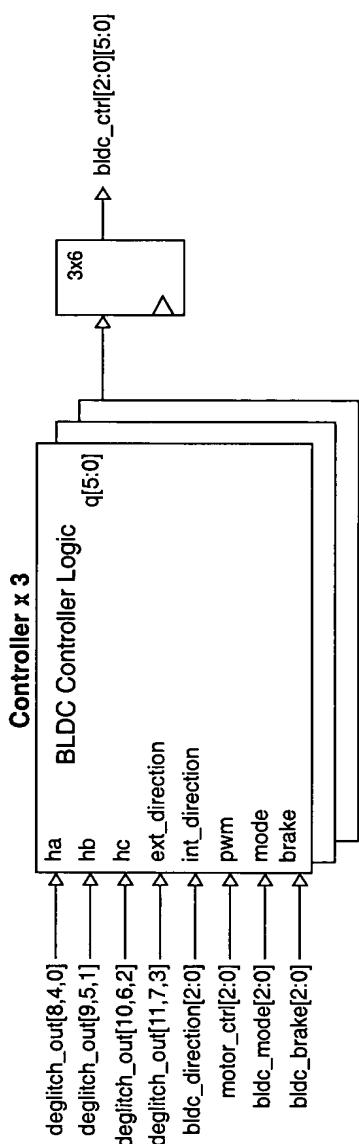


FIG. 60

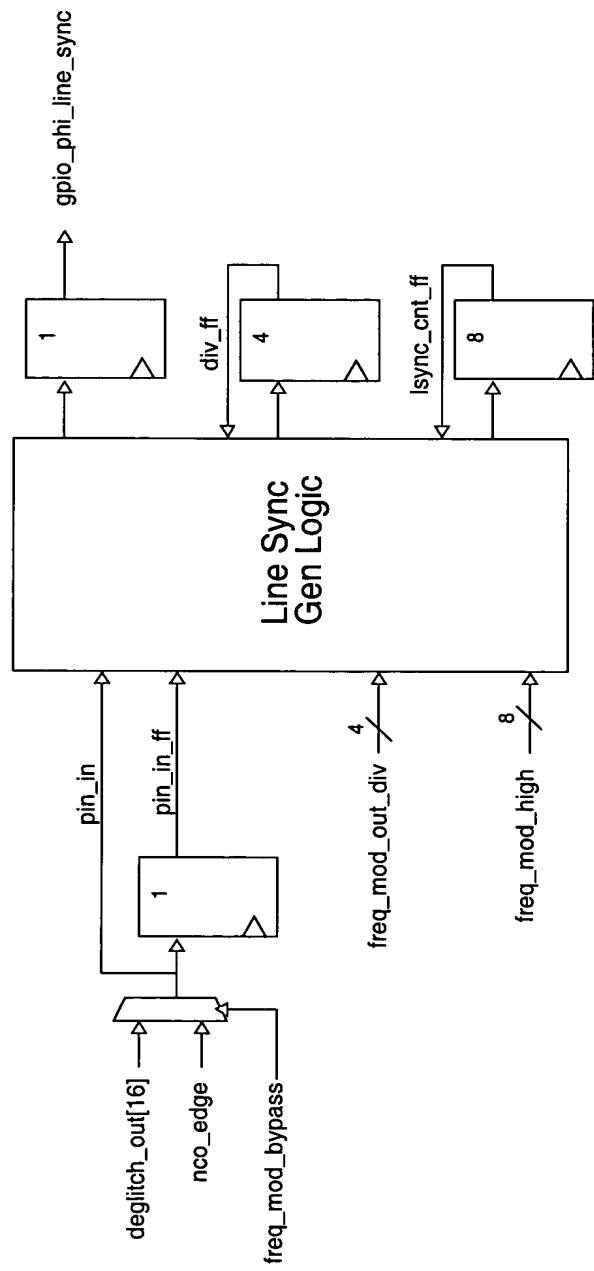


FIG. 61

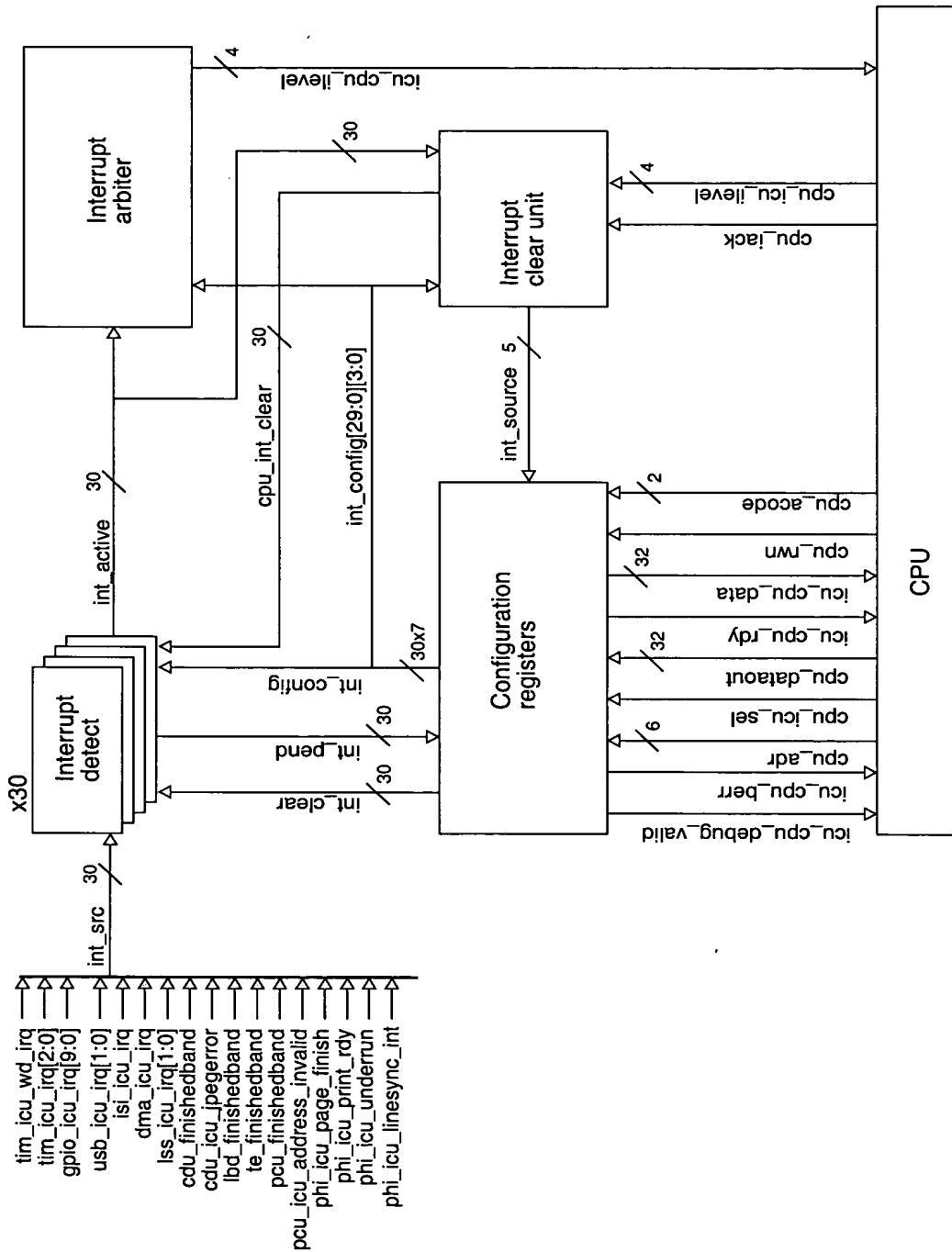


FIG. 62

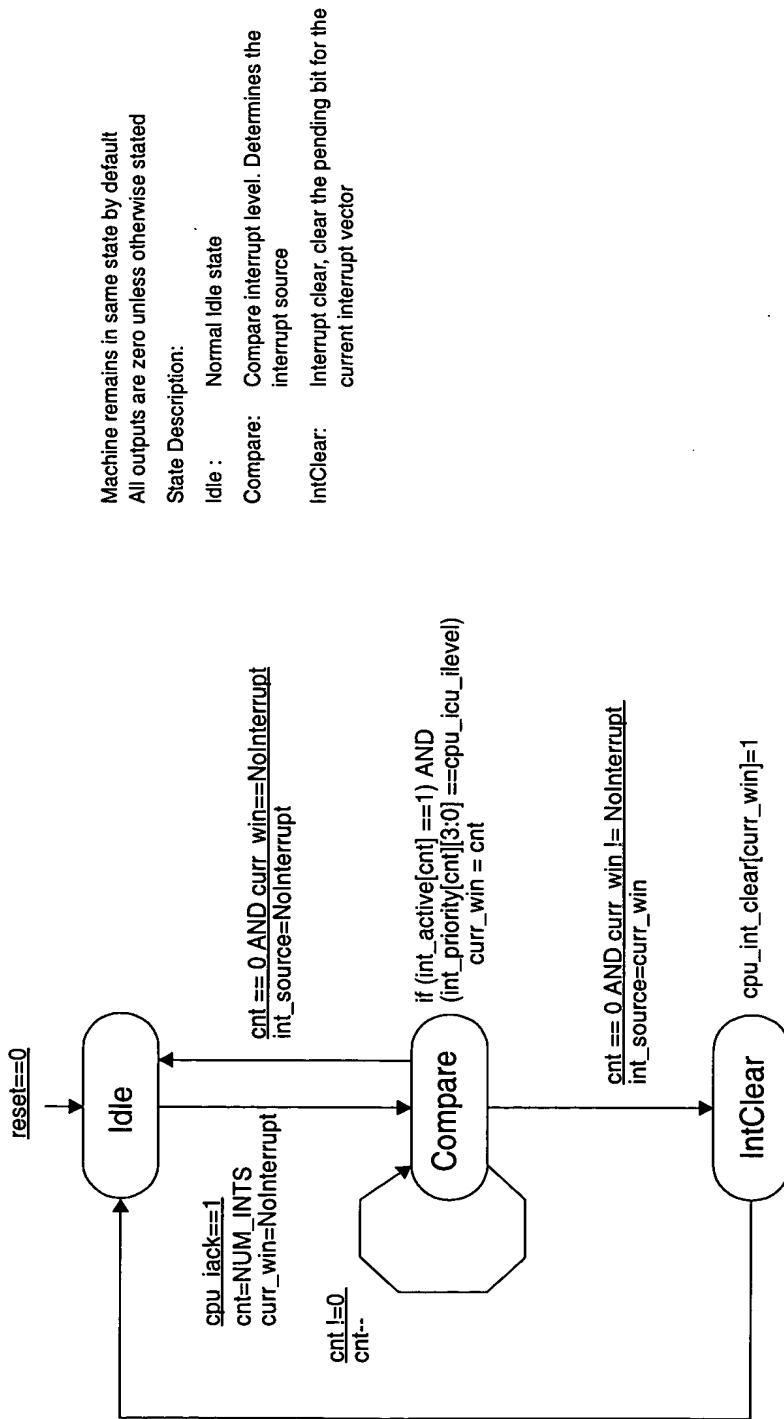


FIG. 63

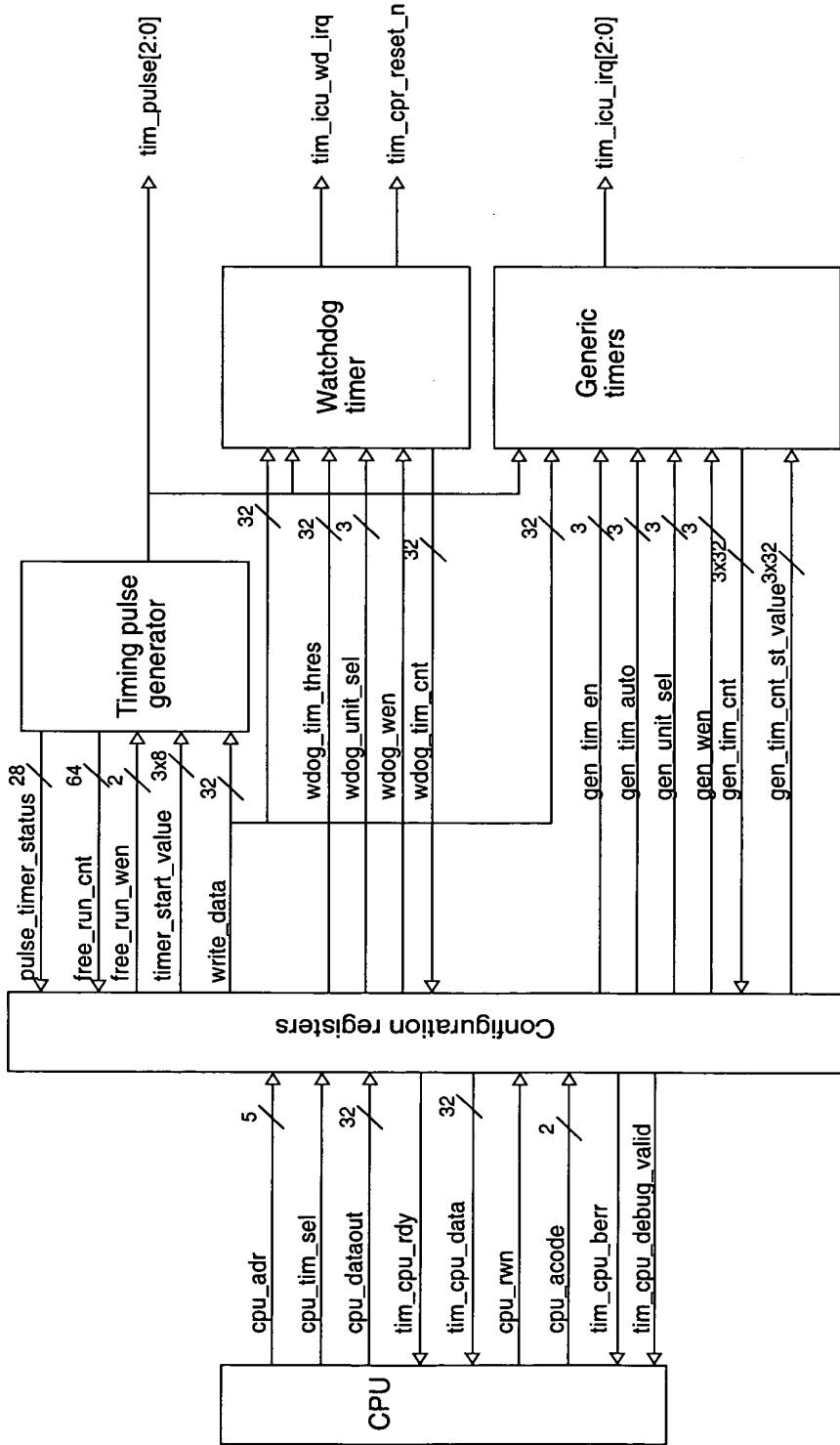


FIG. 63A

FIG. 64

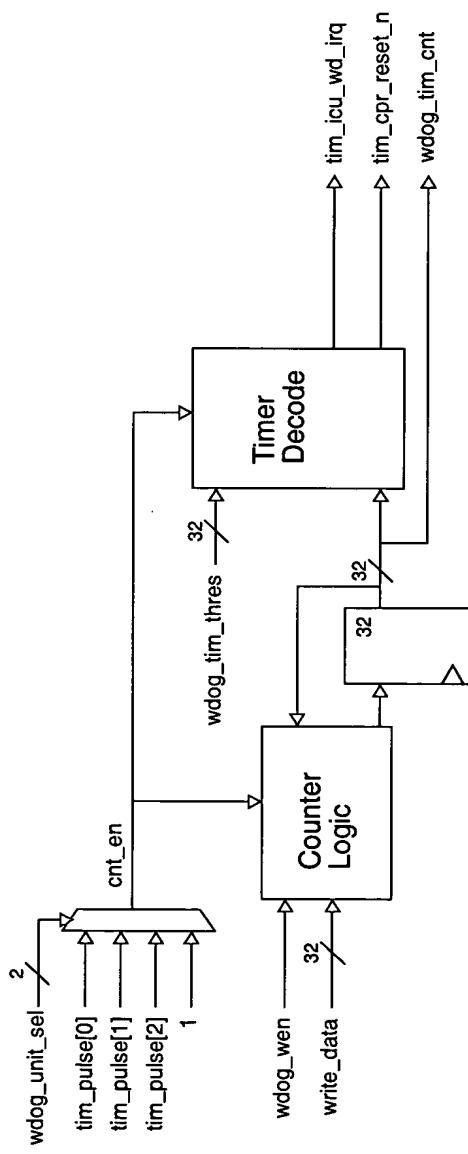
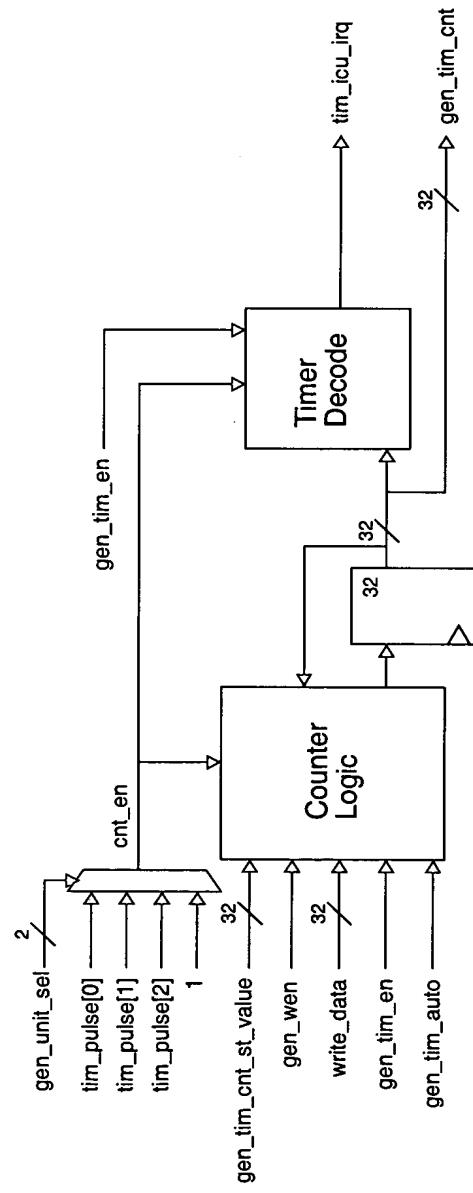


FIG. 65



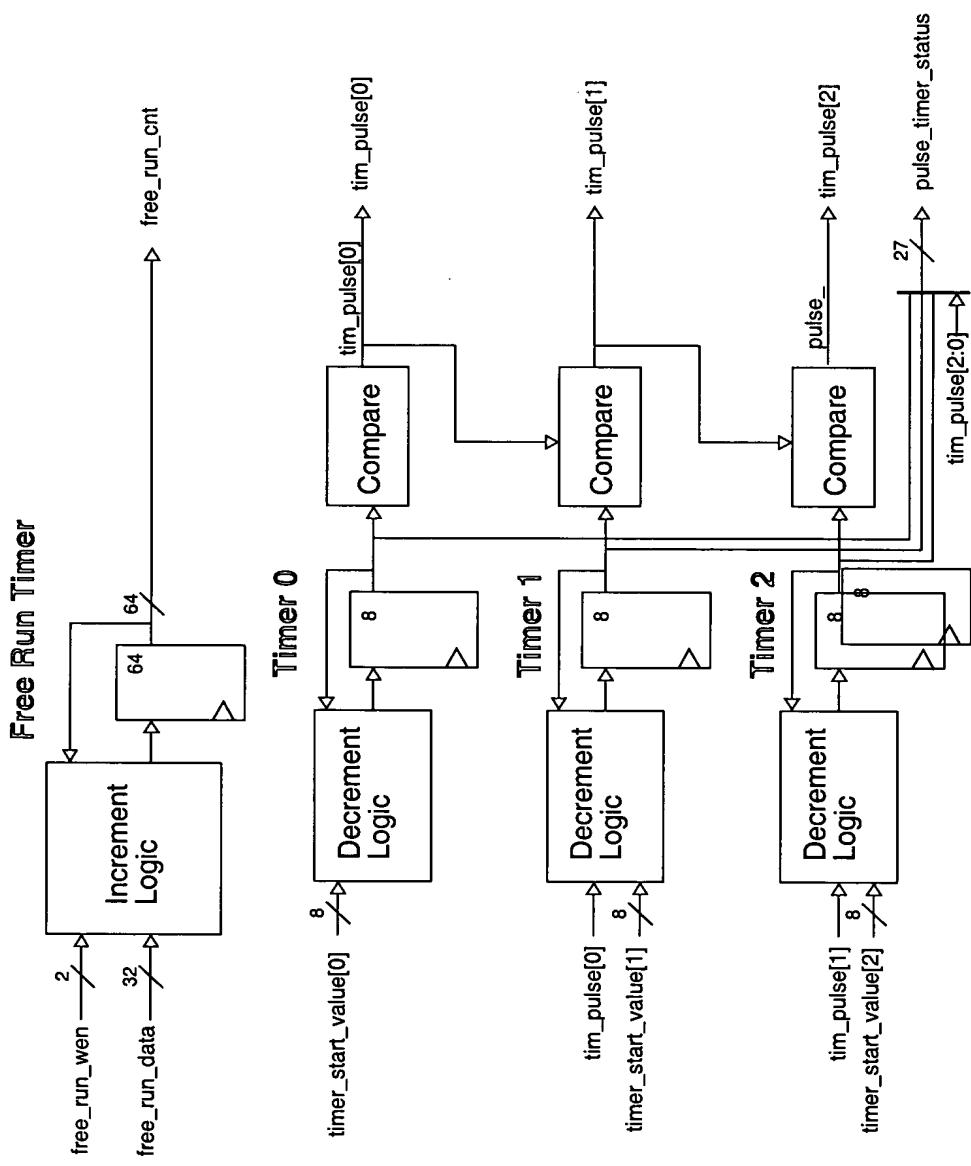


FIG. 66

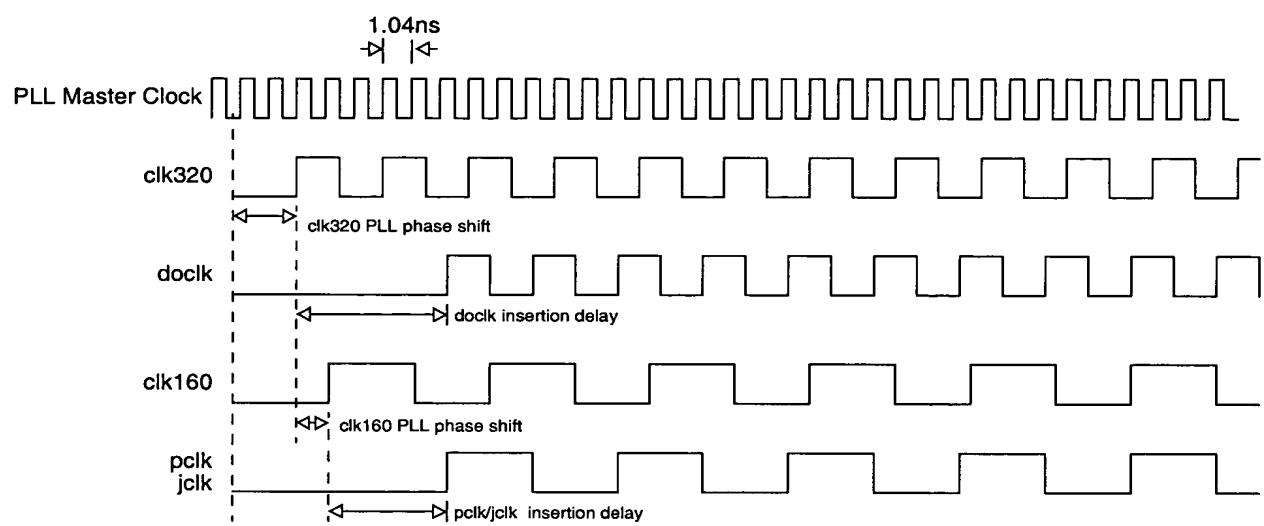


FIG. 67

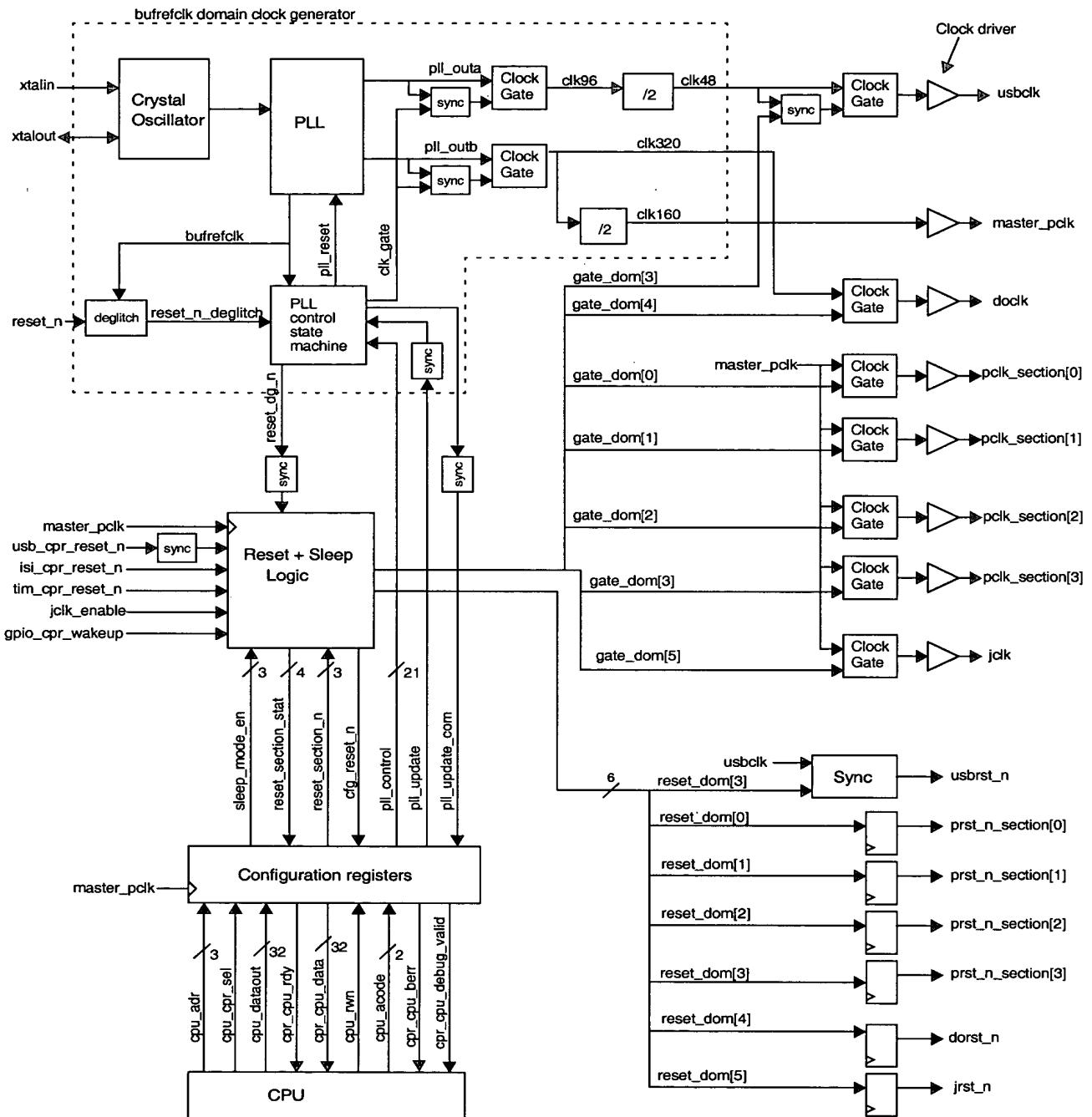
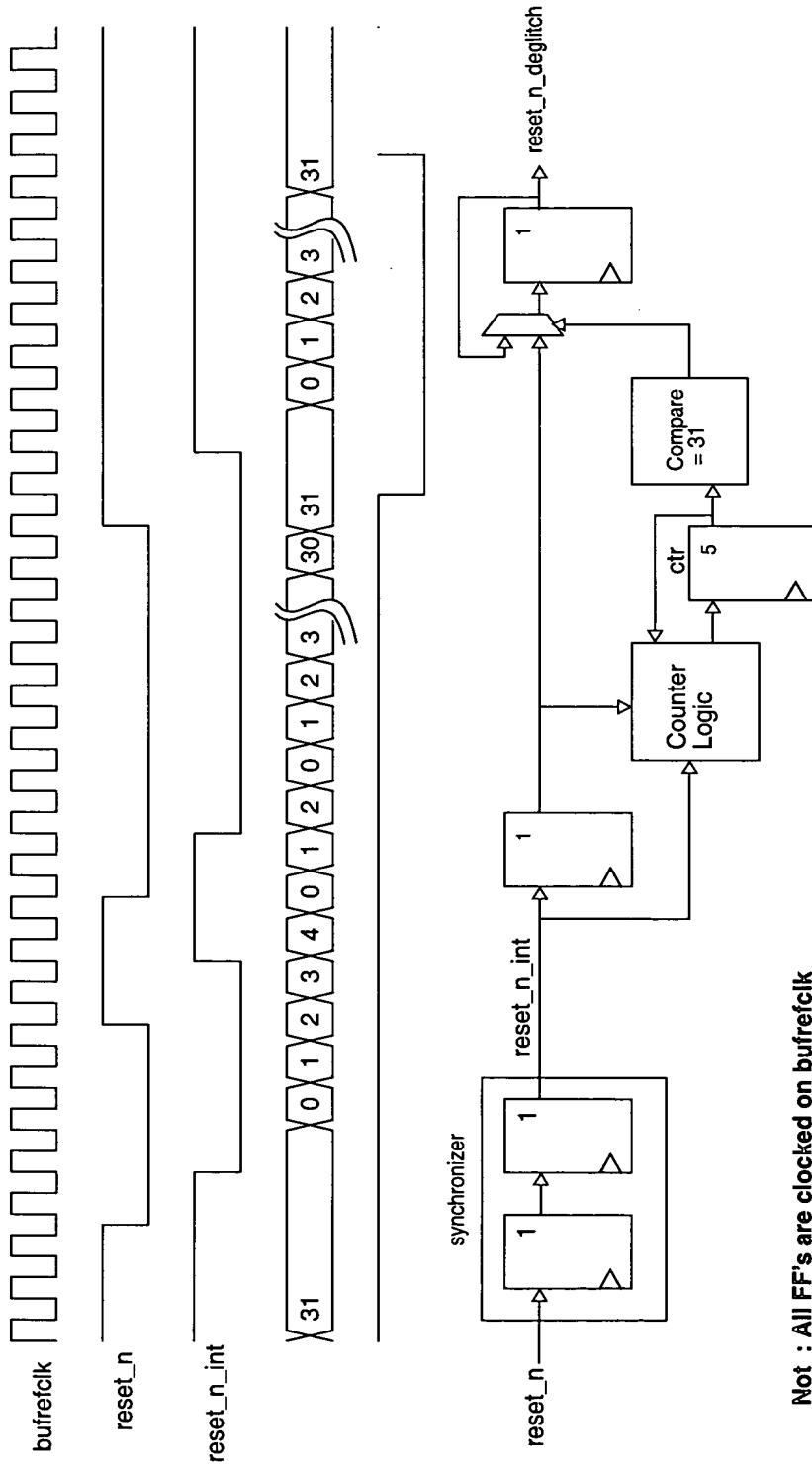


FIG. 68



Not : All FF's are clocked on bufrefclk

FIG. 70

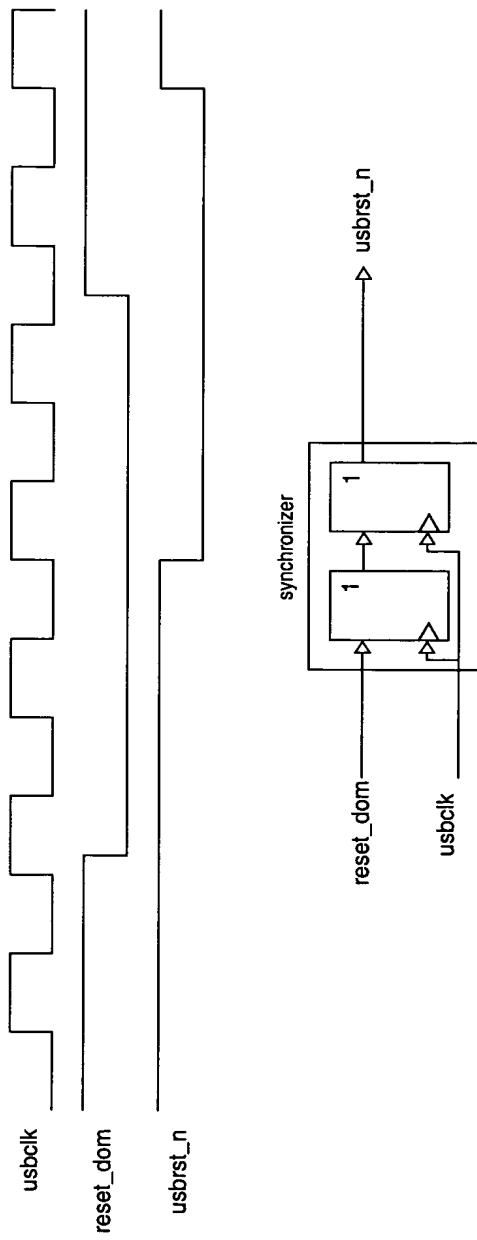
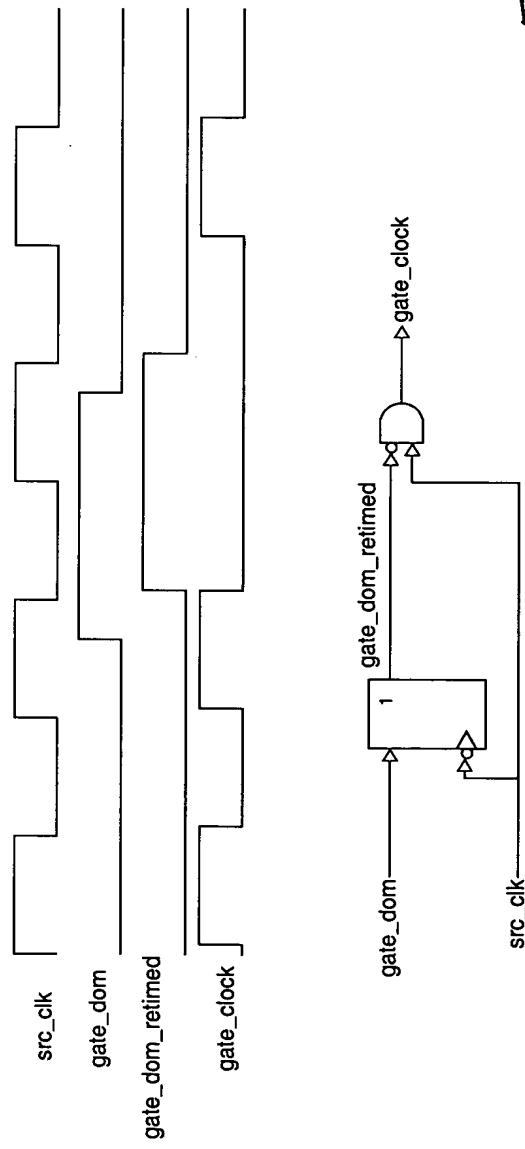


FIG. 71



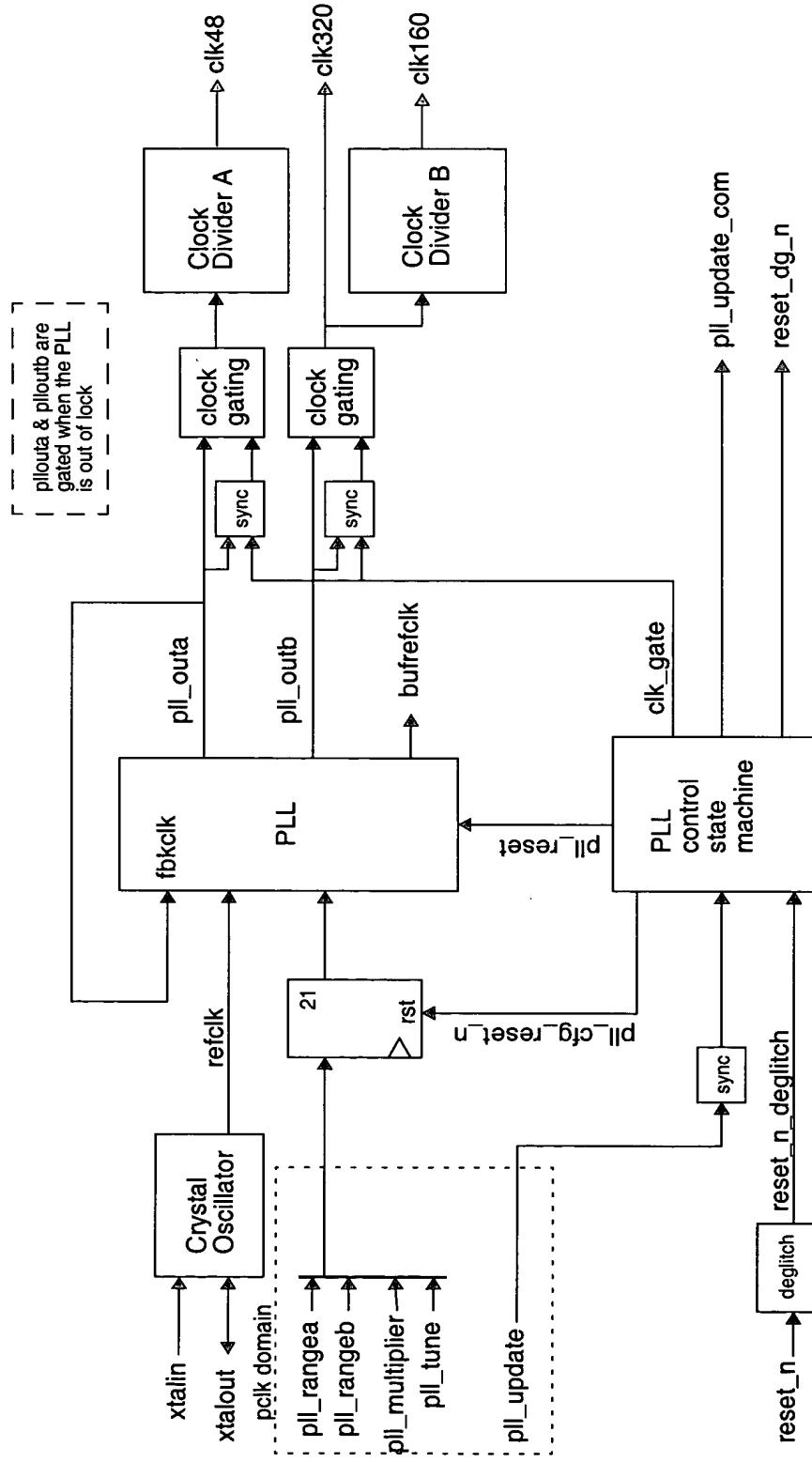
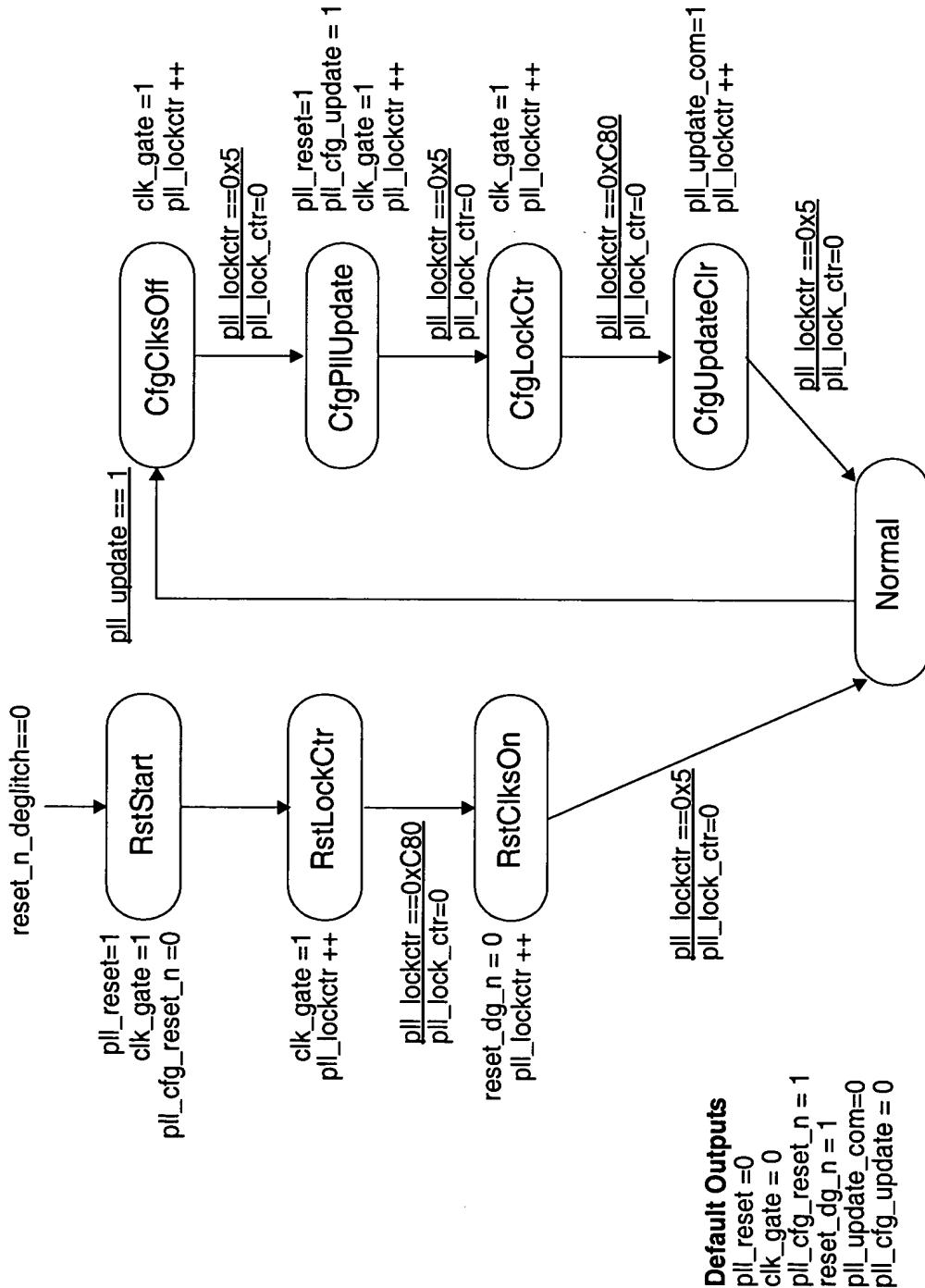


FIG. 72



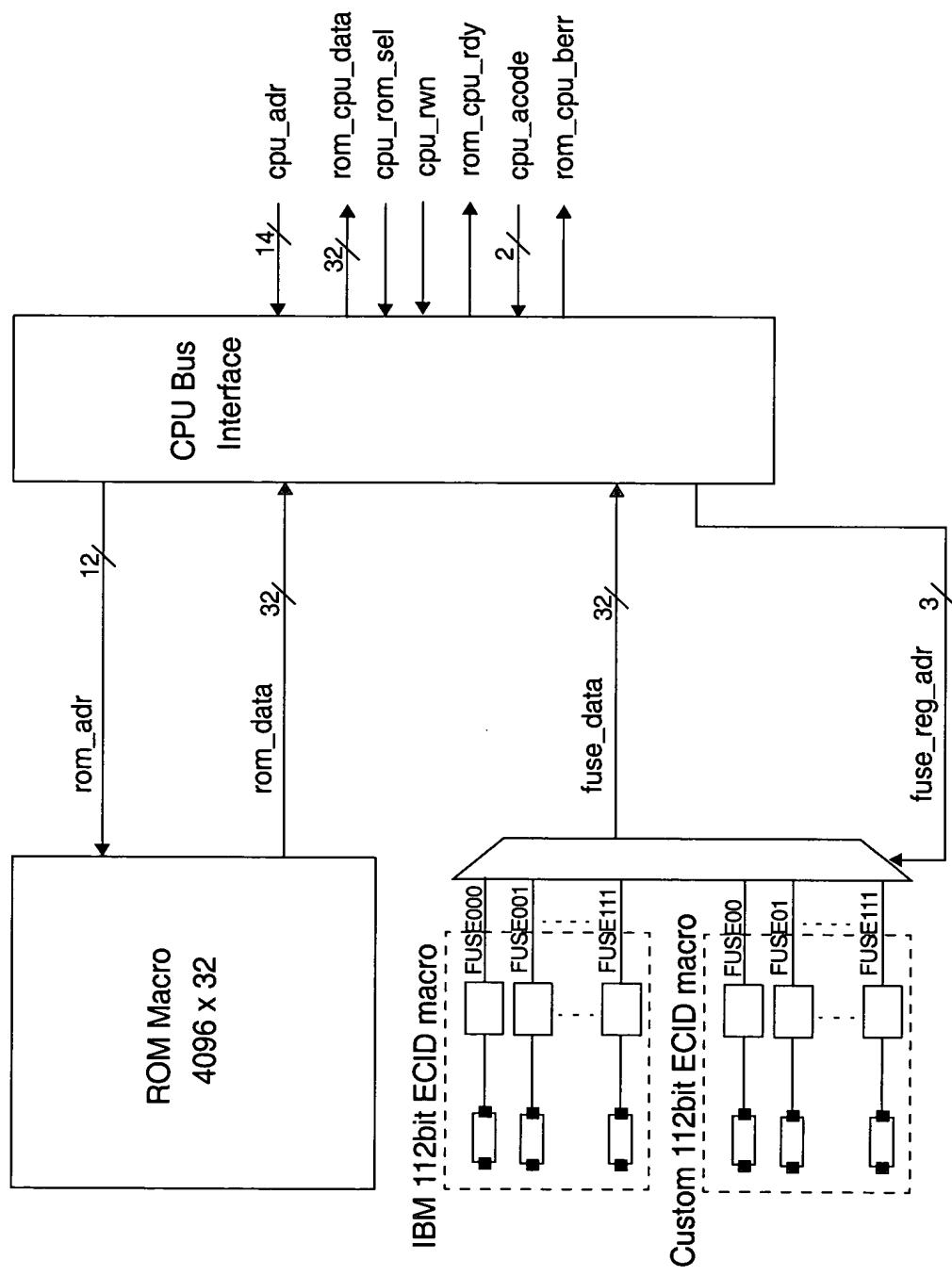


FIG. 74

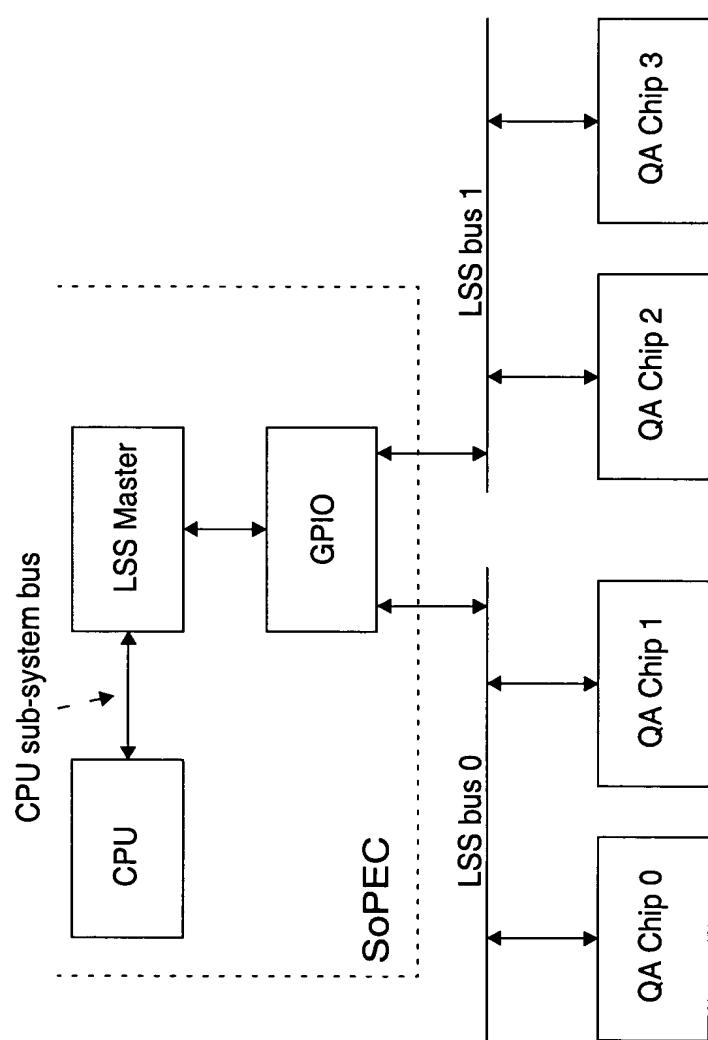


FIG. 75

FIG. 76

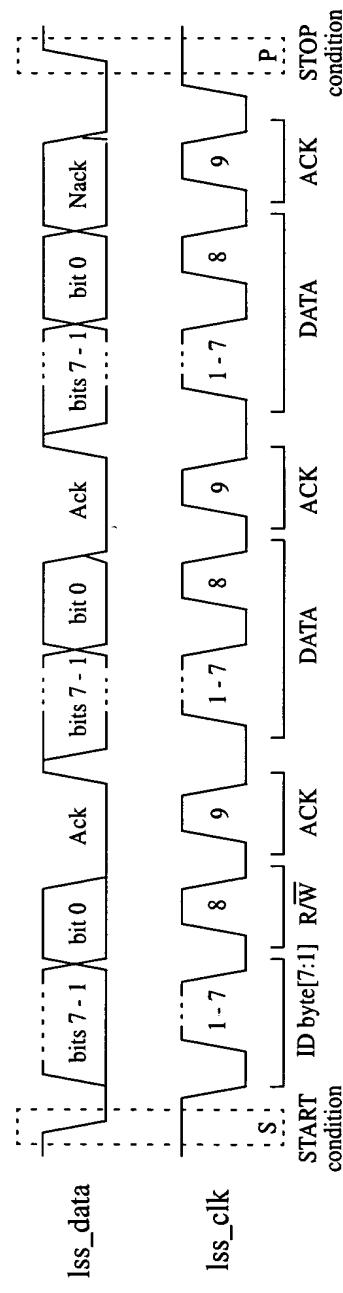
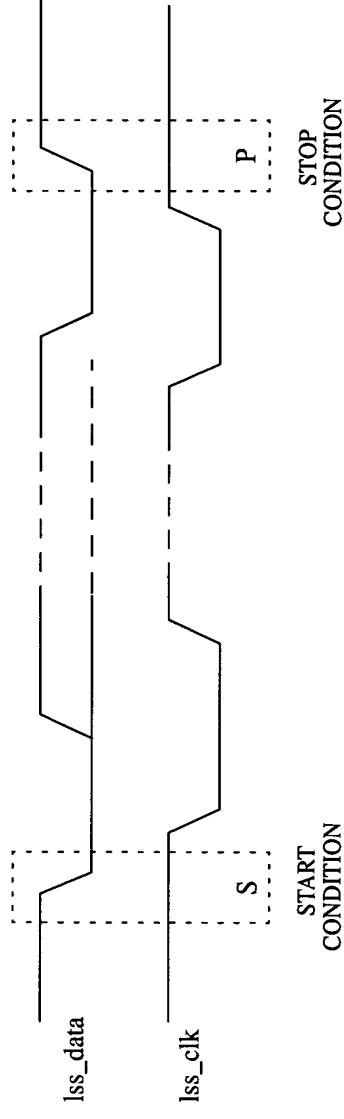


FIG. 77

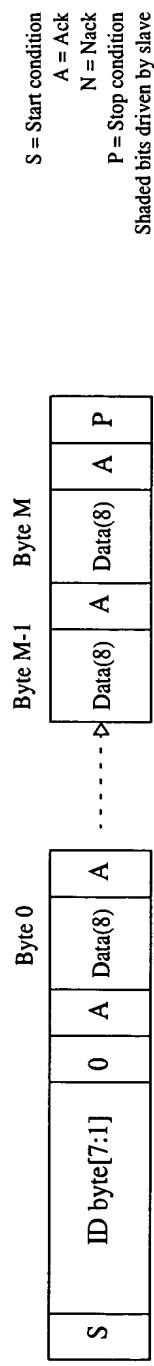


FIG. 78

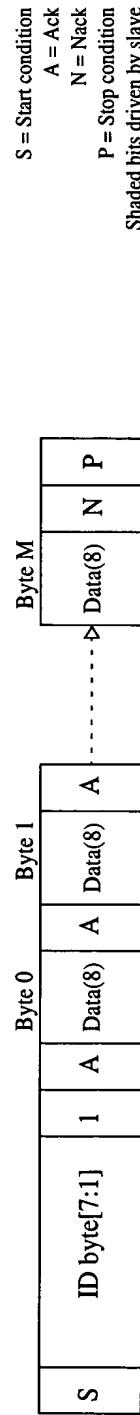


FIG. 79

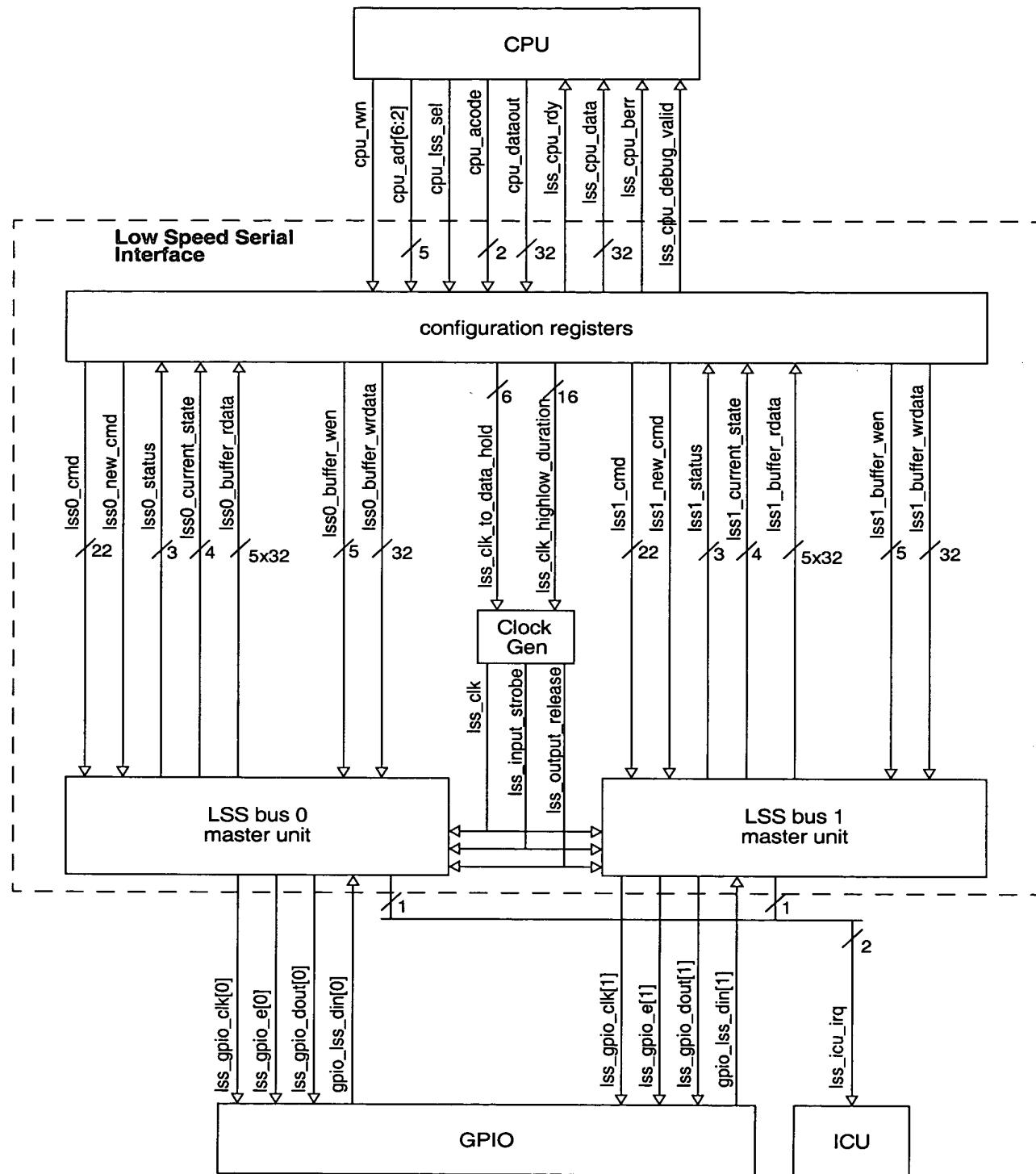


FIG. 80

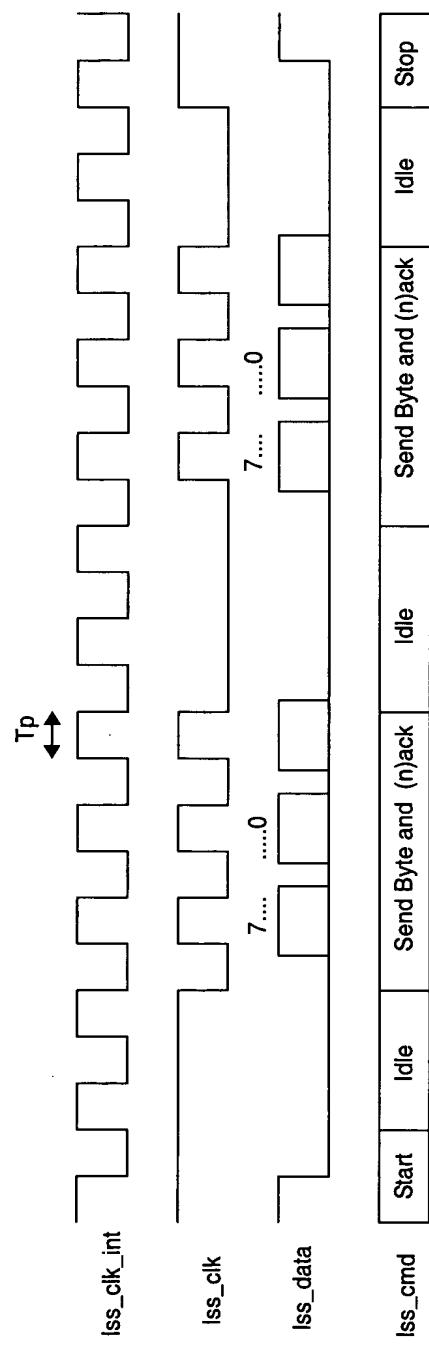


FIG. 81

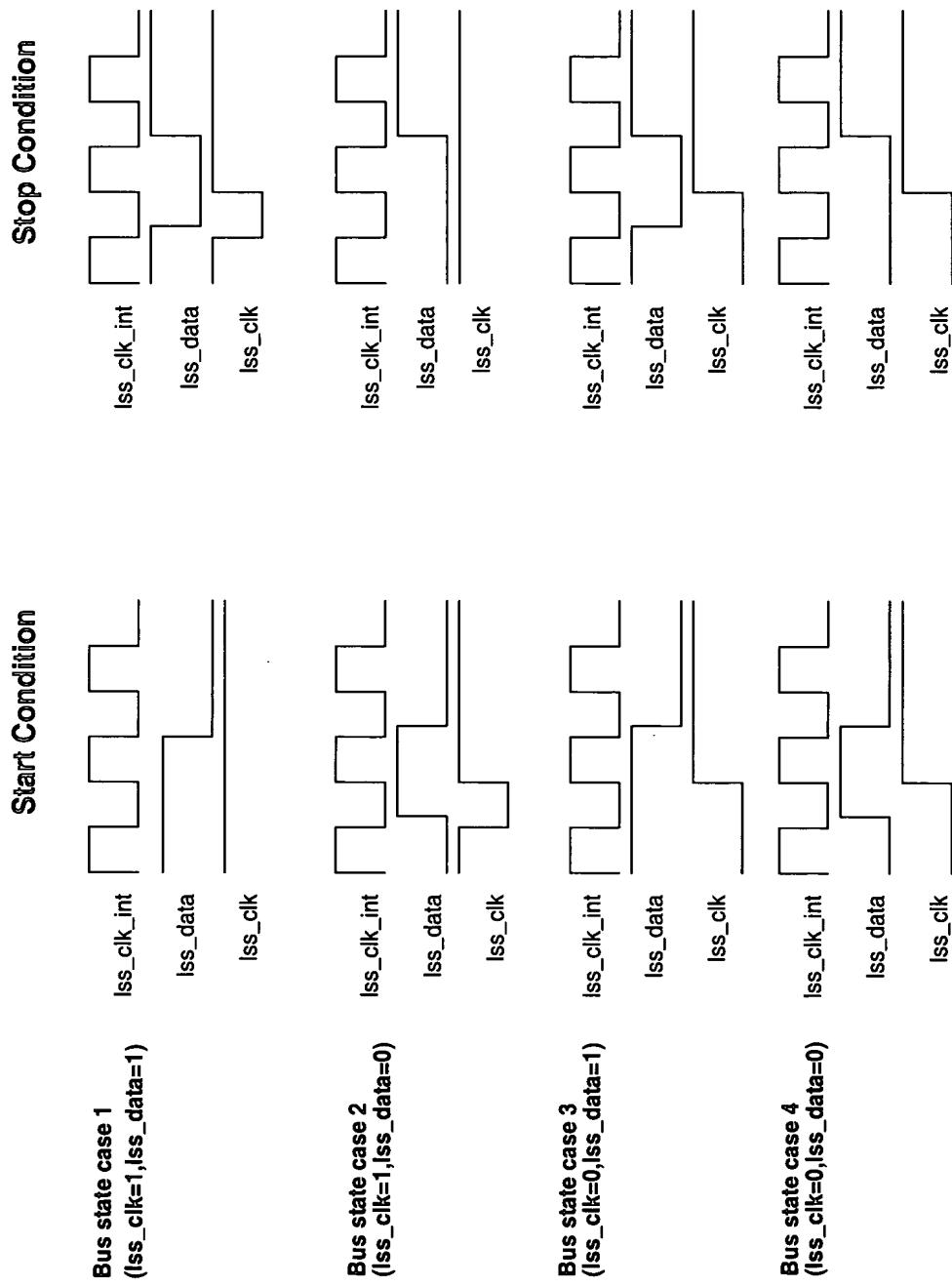


FIG. 82

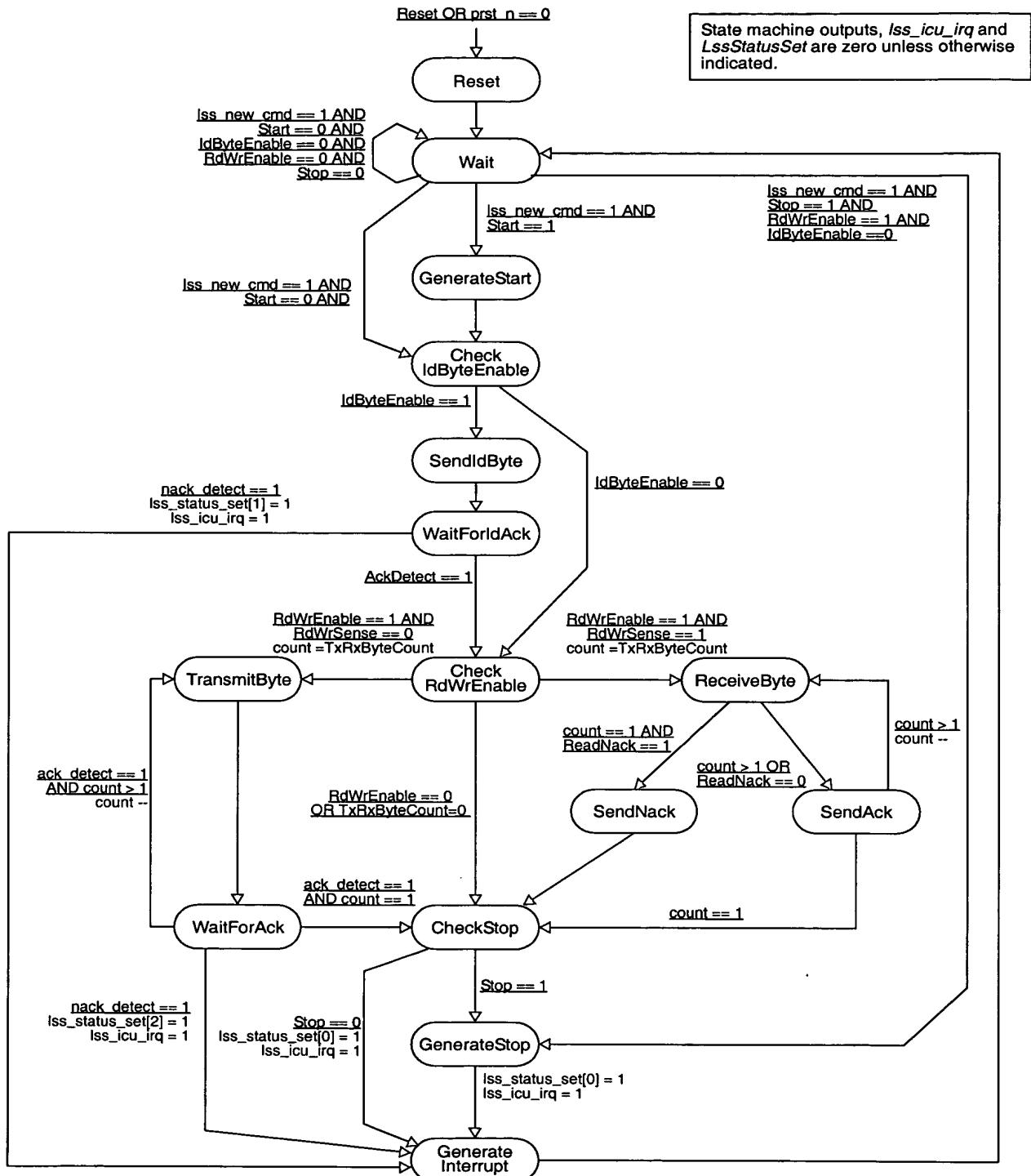


FIG. 83

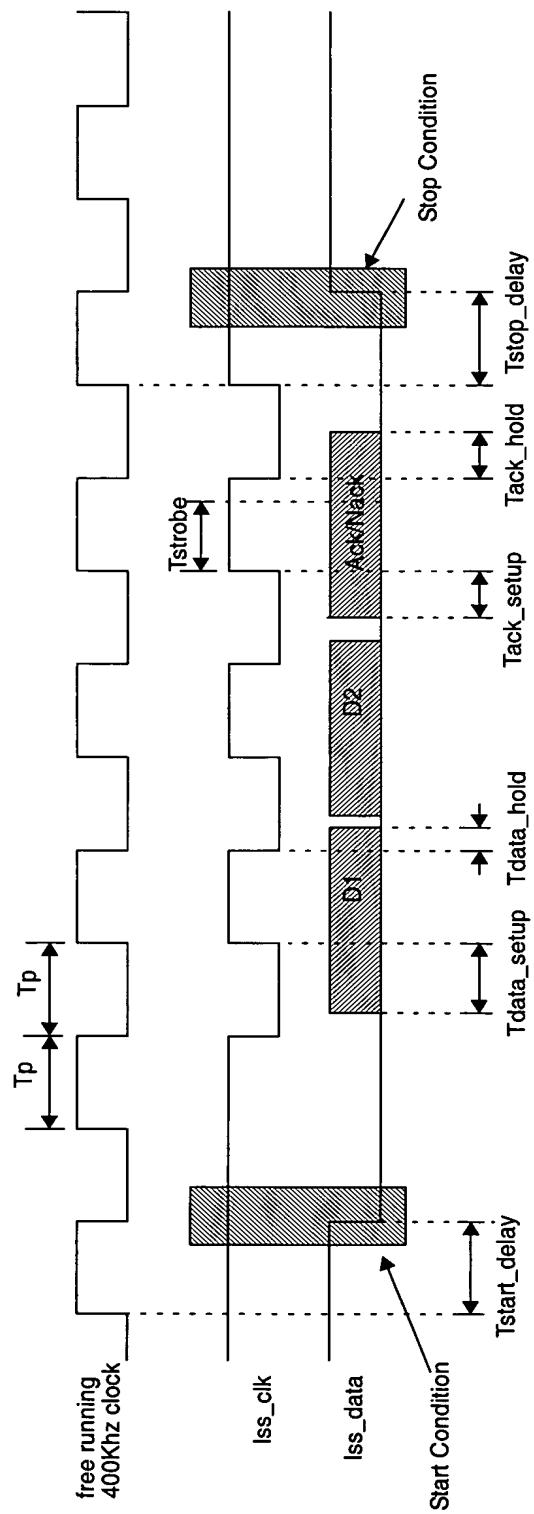


FIG. 84

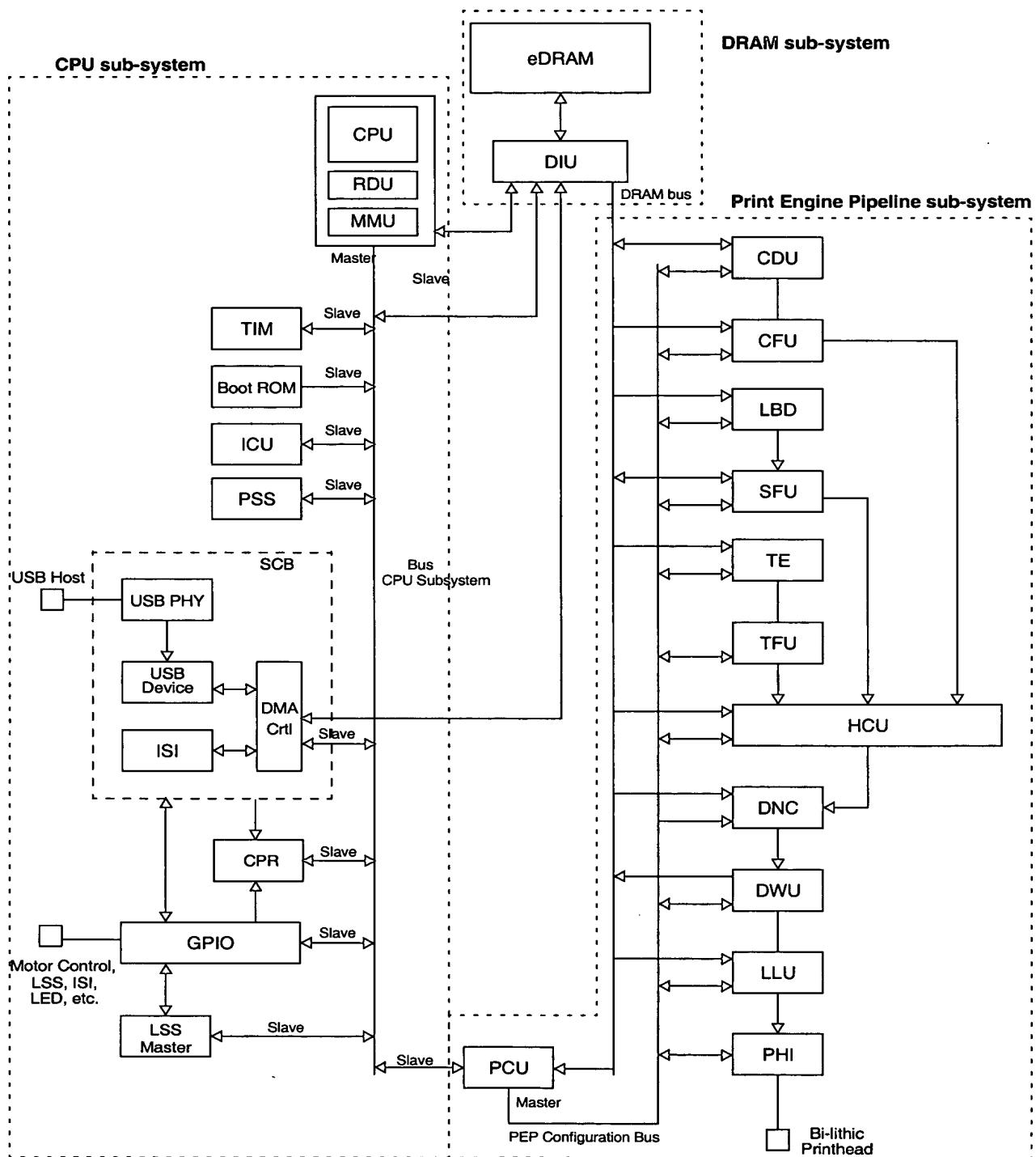


FIG. 85

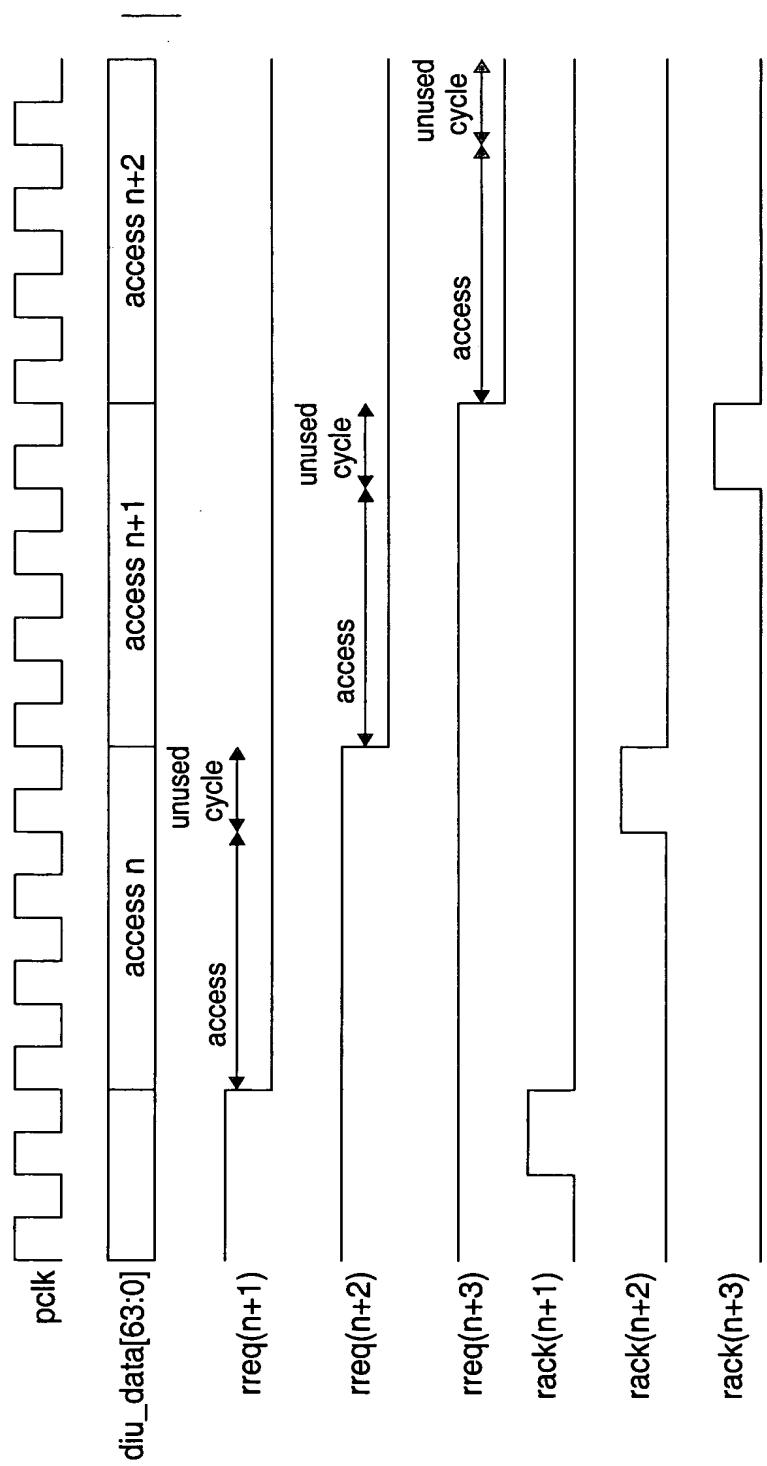


FIG. 86

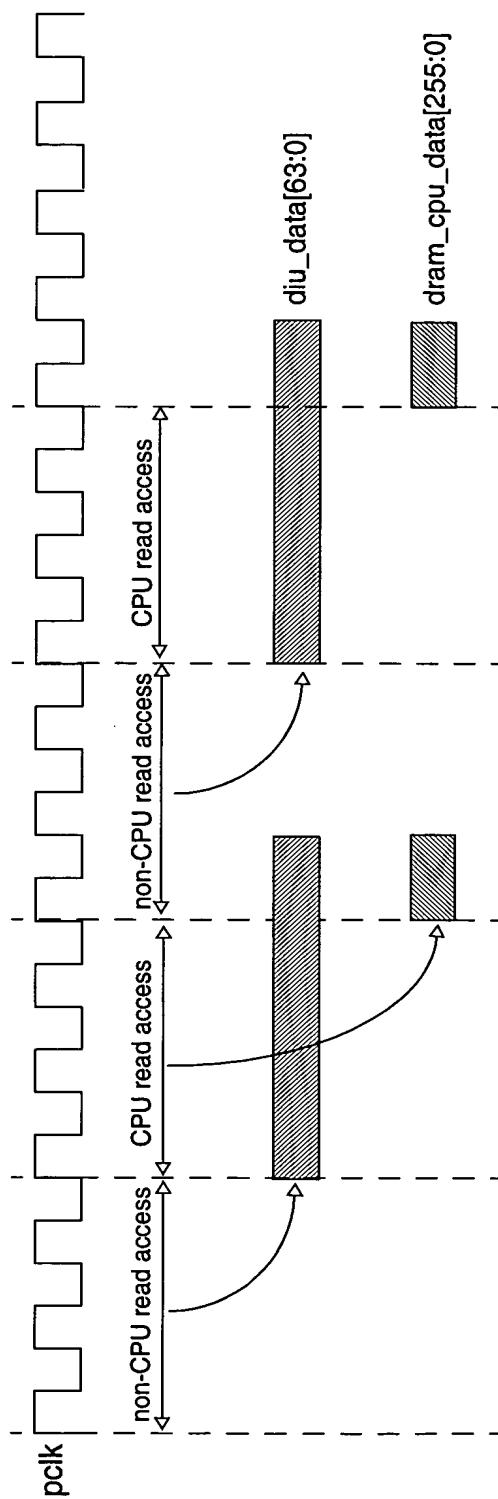


FIG. 87

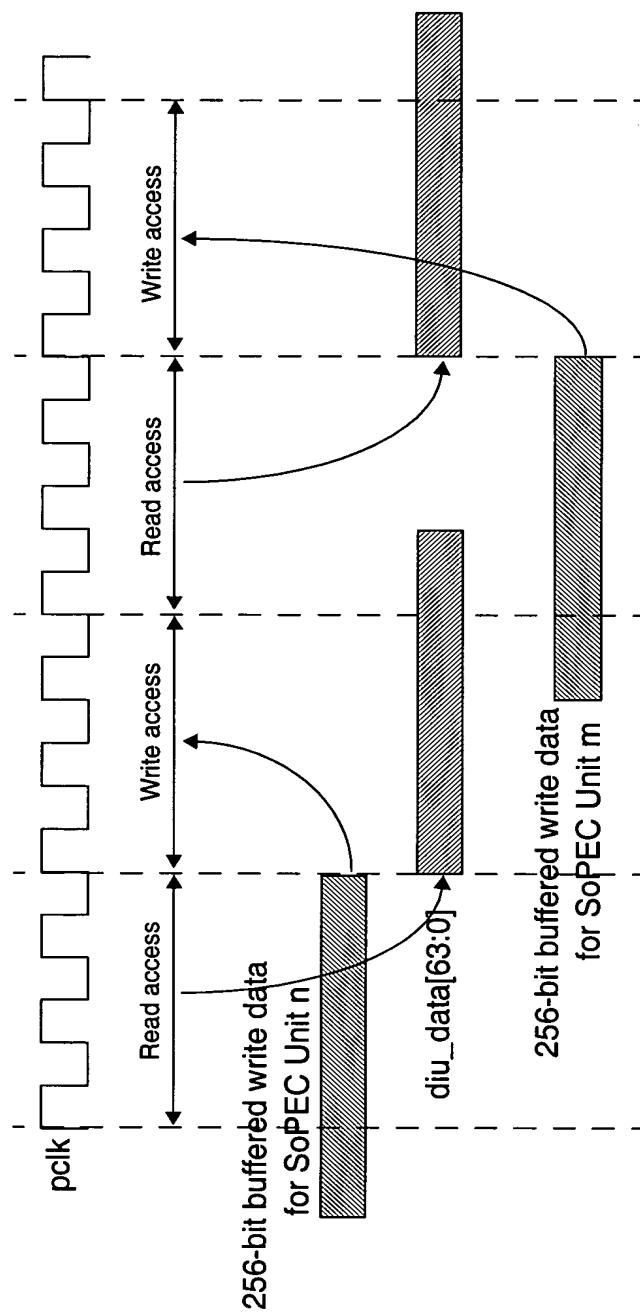


FIG. 88

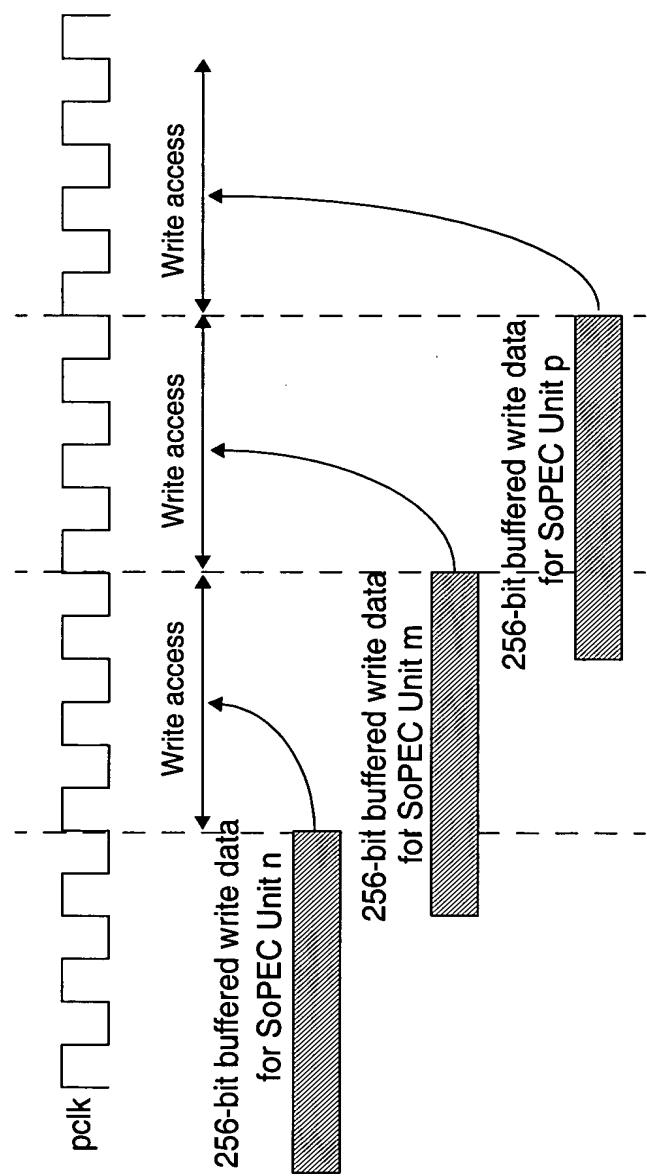


FIG. 89

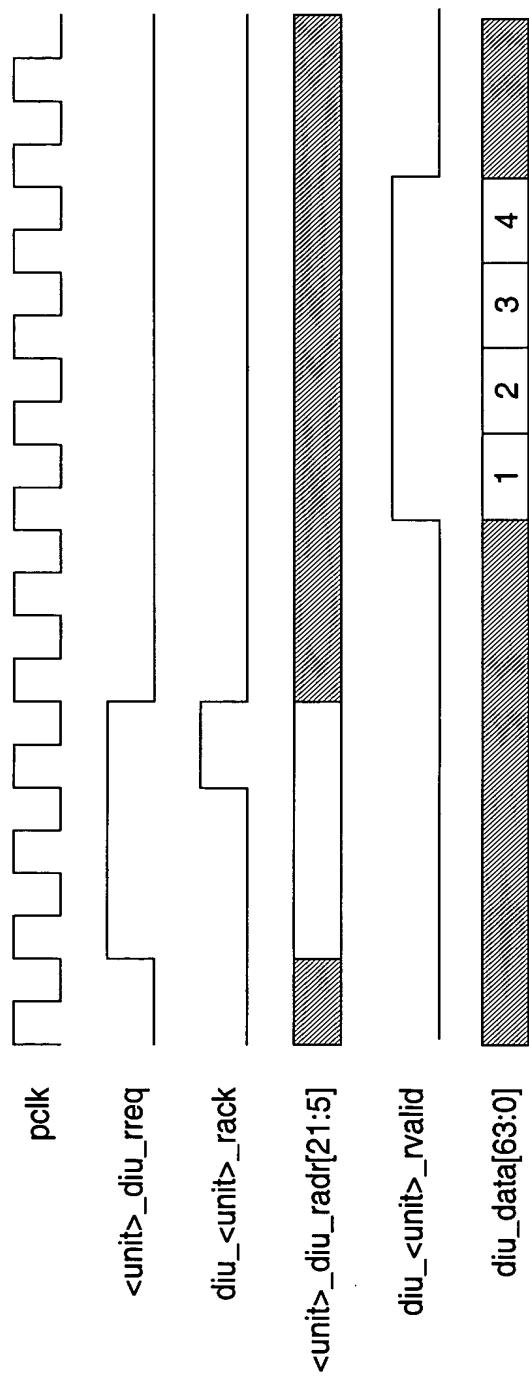


FIG. 90

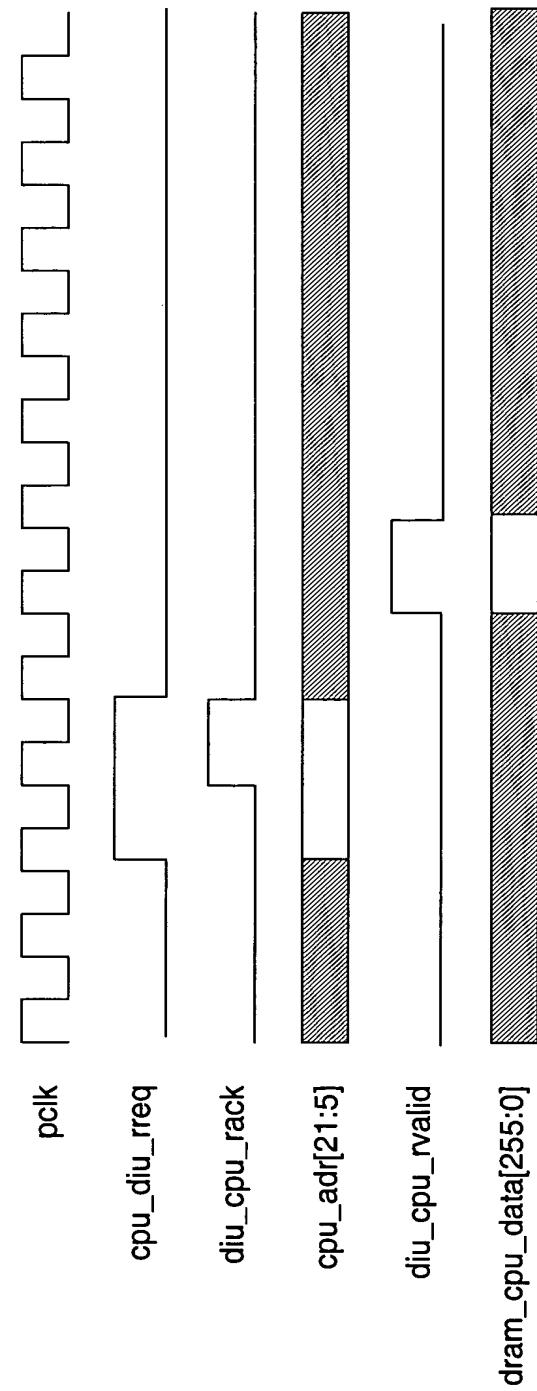


FIG. 91

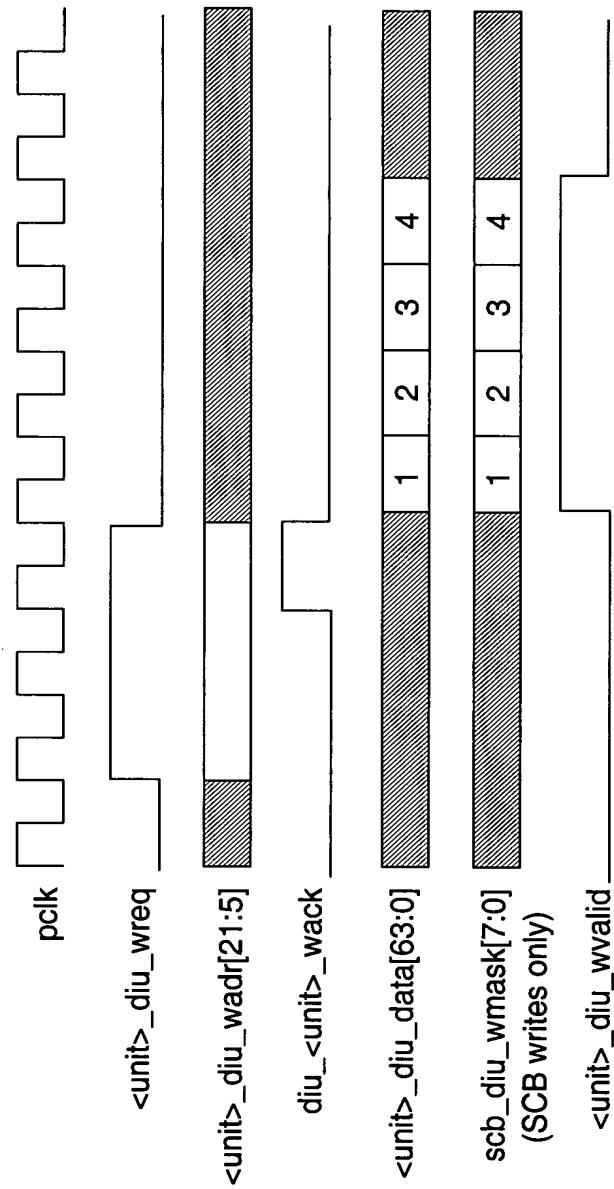


FIG. 92

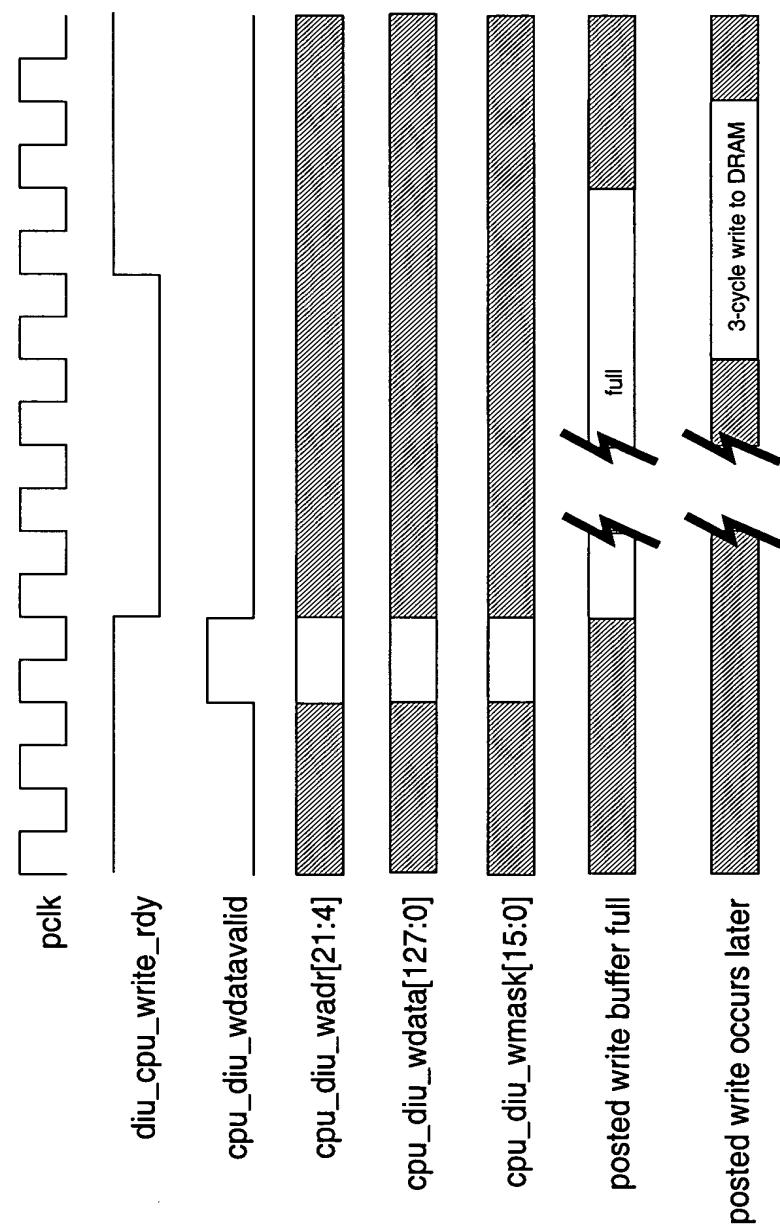


FIG. 93

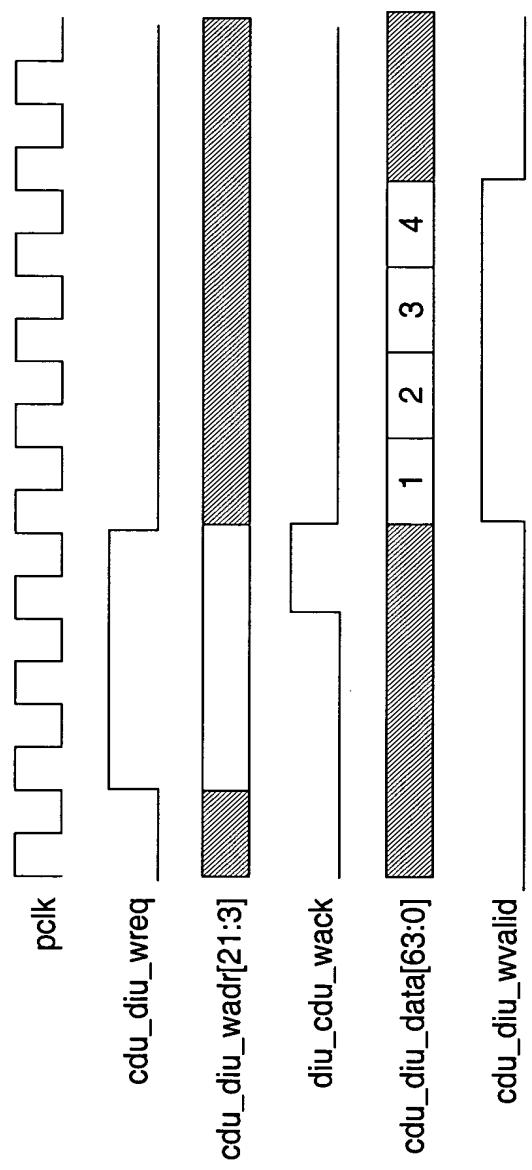


FIG. 94

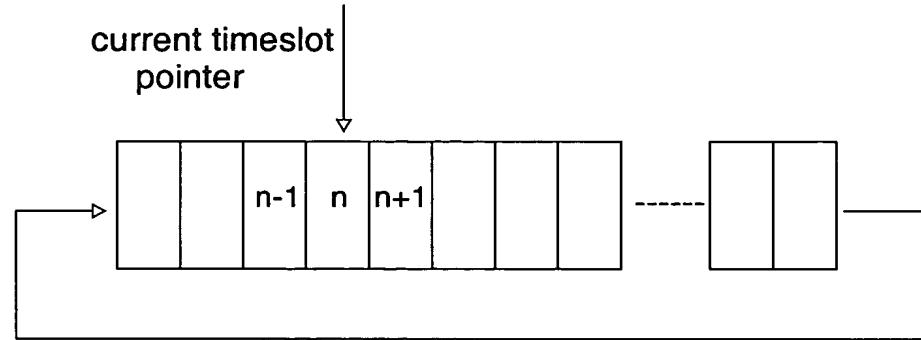


FIG. 95

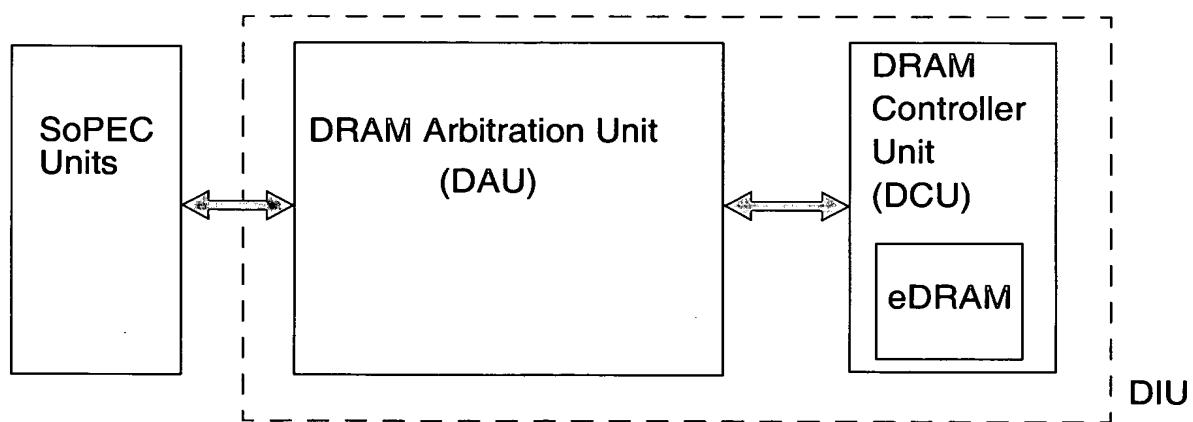


FIG. 100

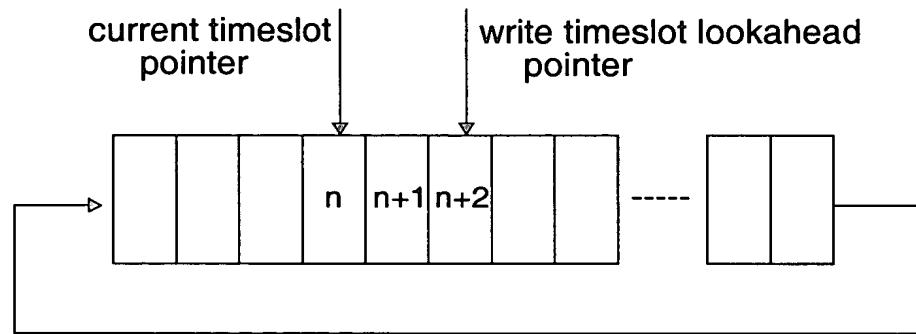


FIG. 96

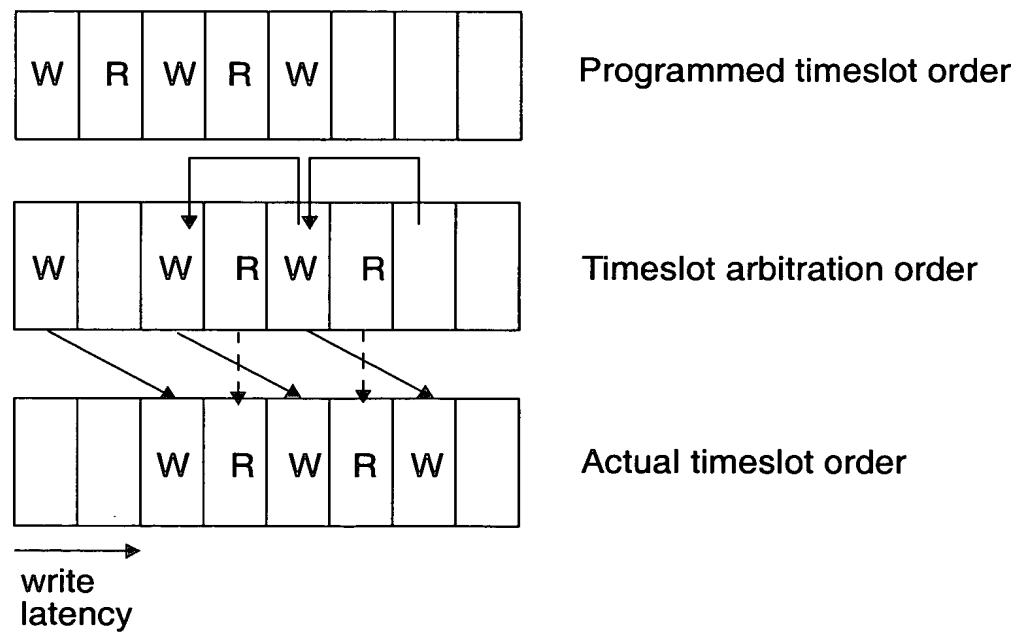


FIG. 97

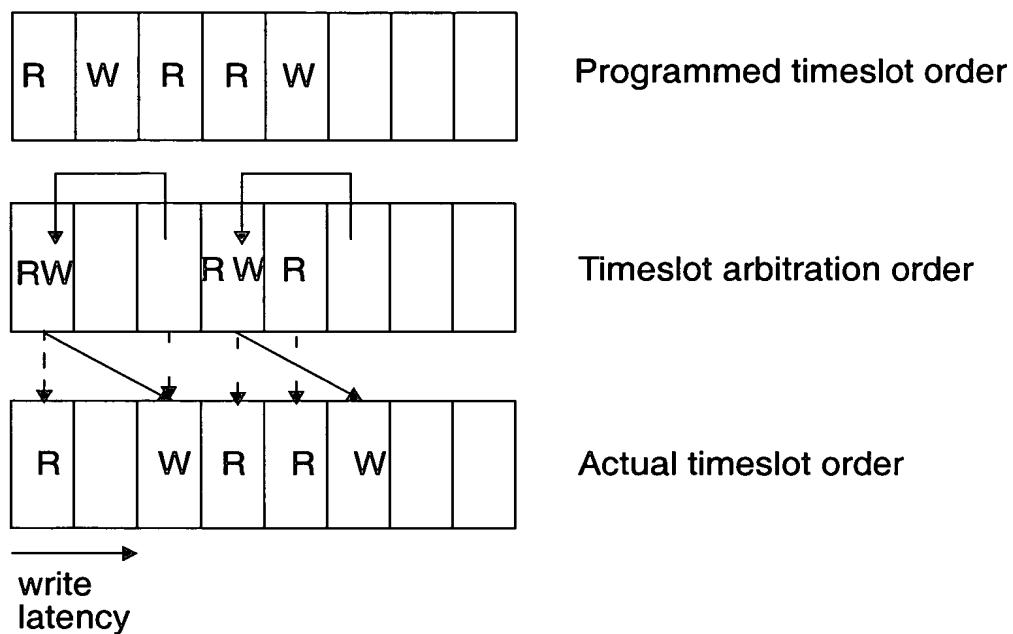


FIG. 98

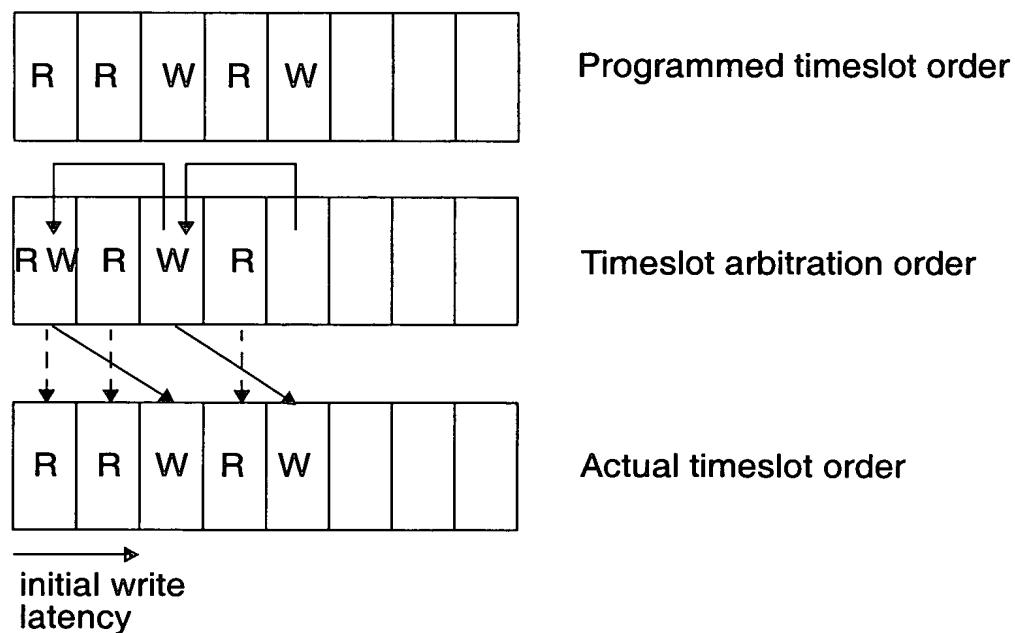


FIG. 99

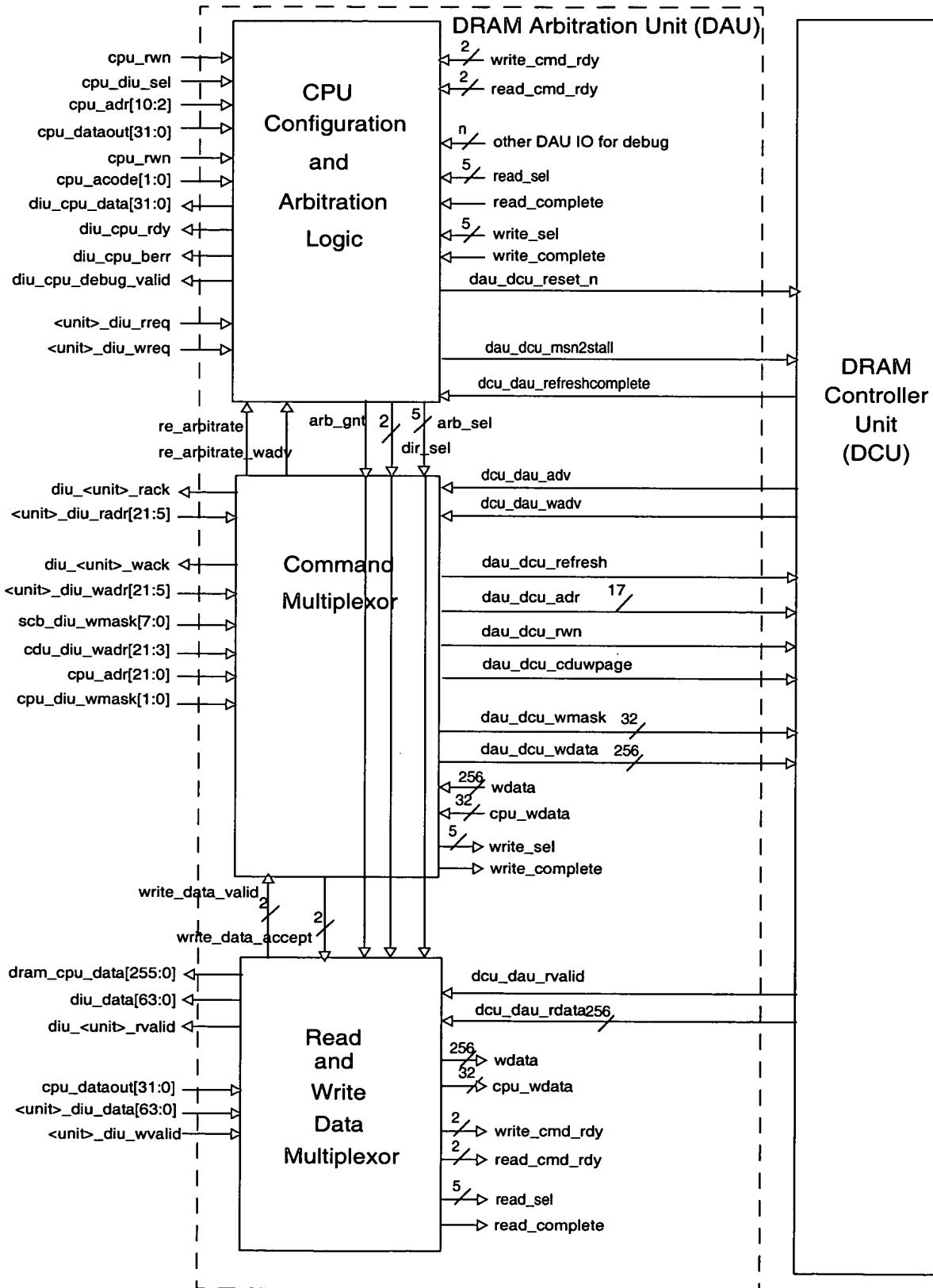


FIG. 101

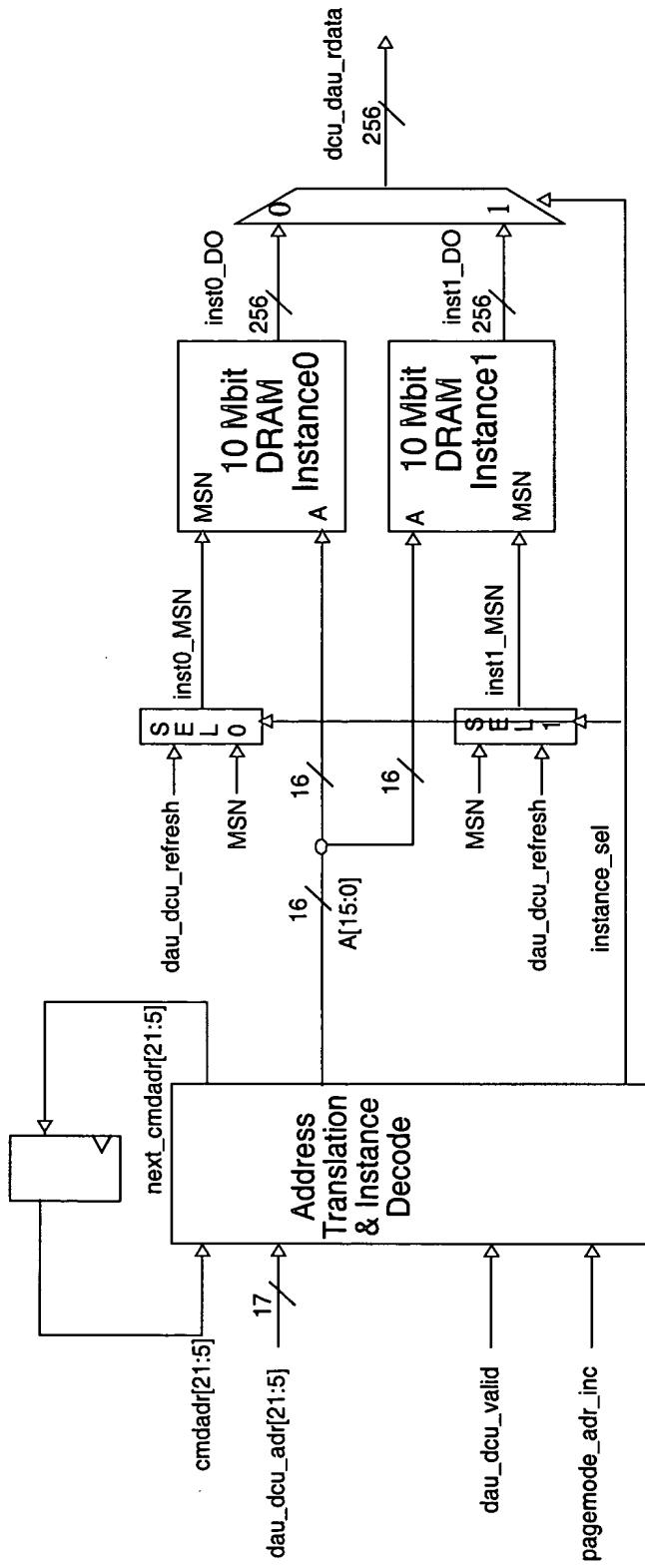


FIG. 102

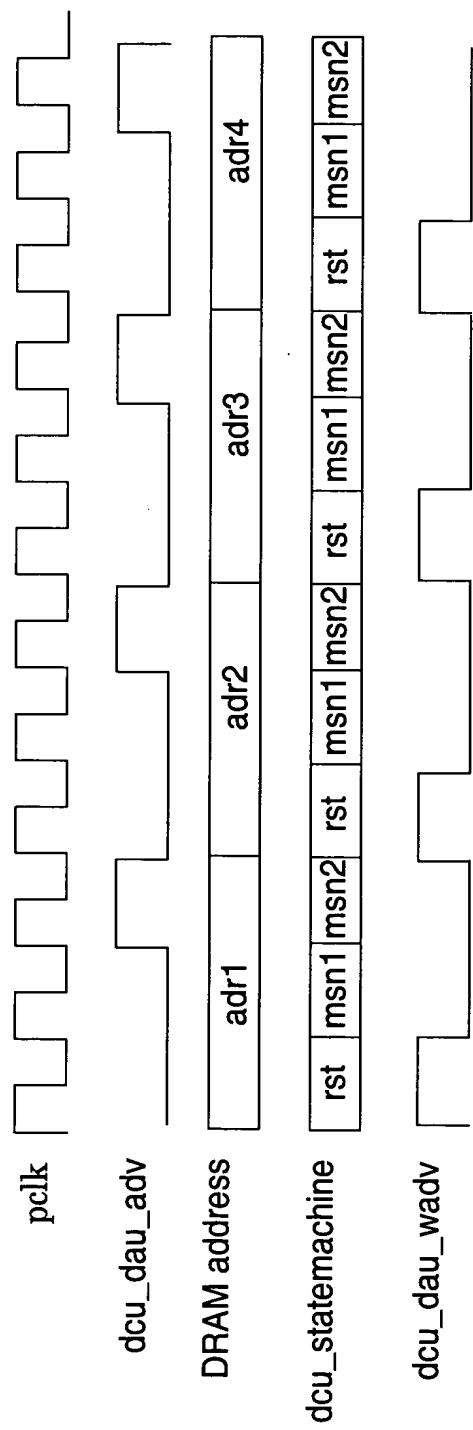
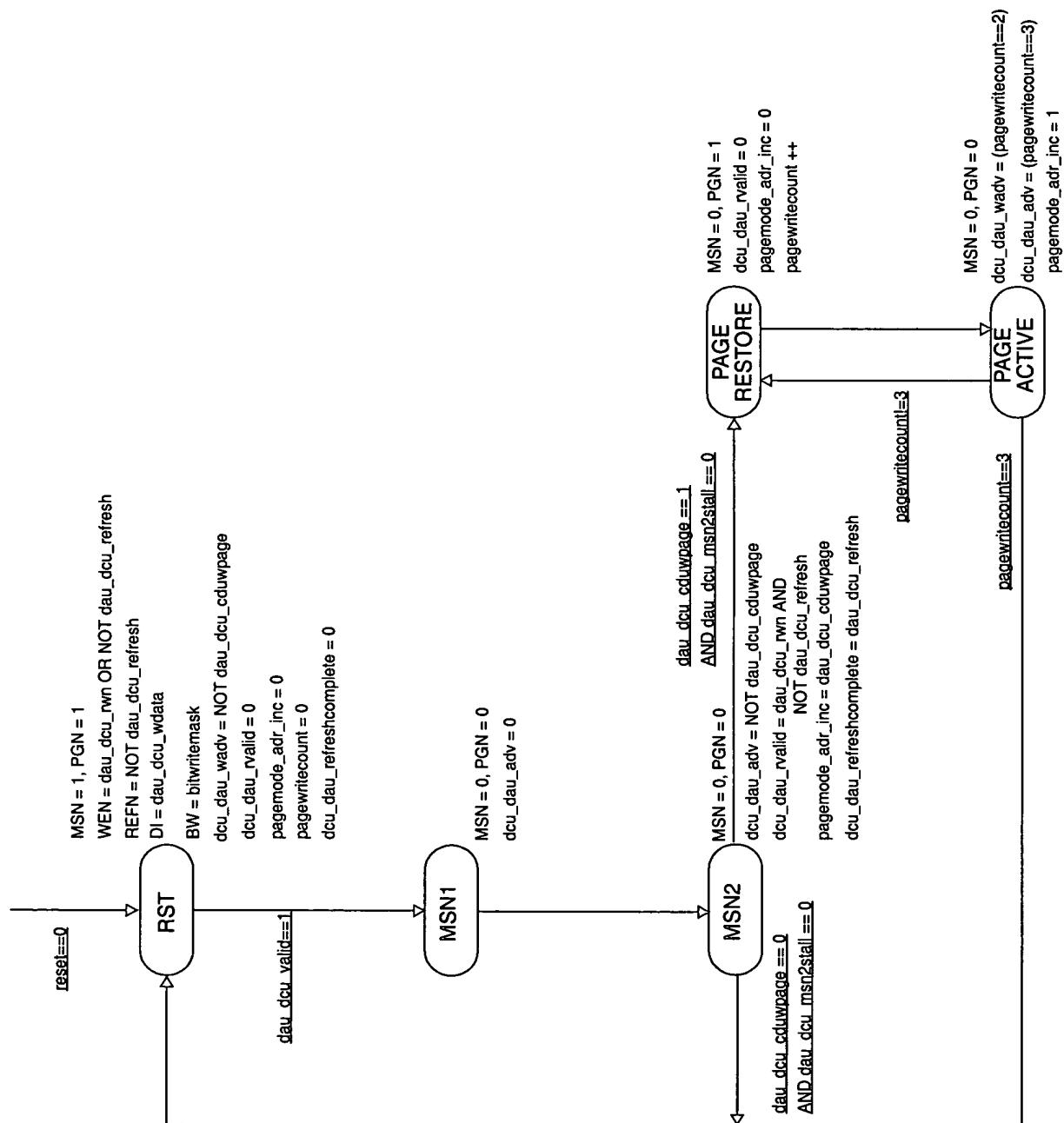


FIG. 103



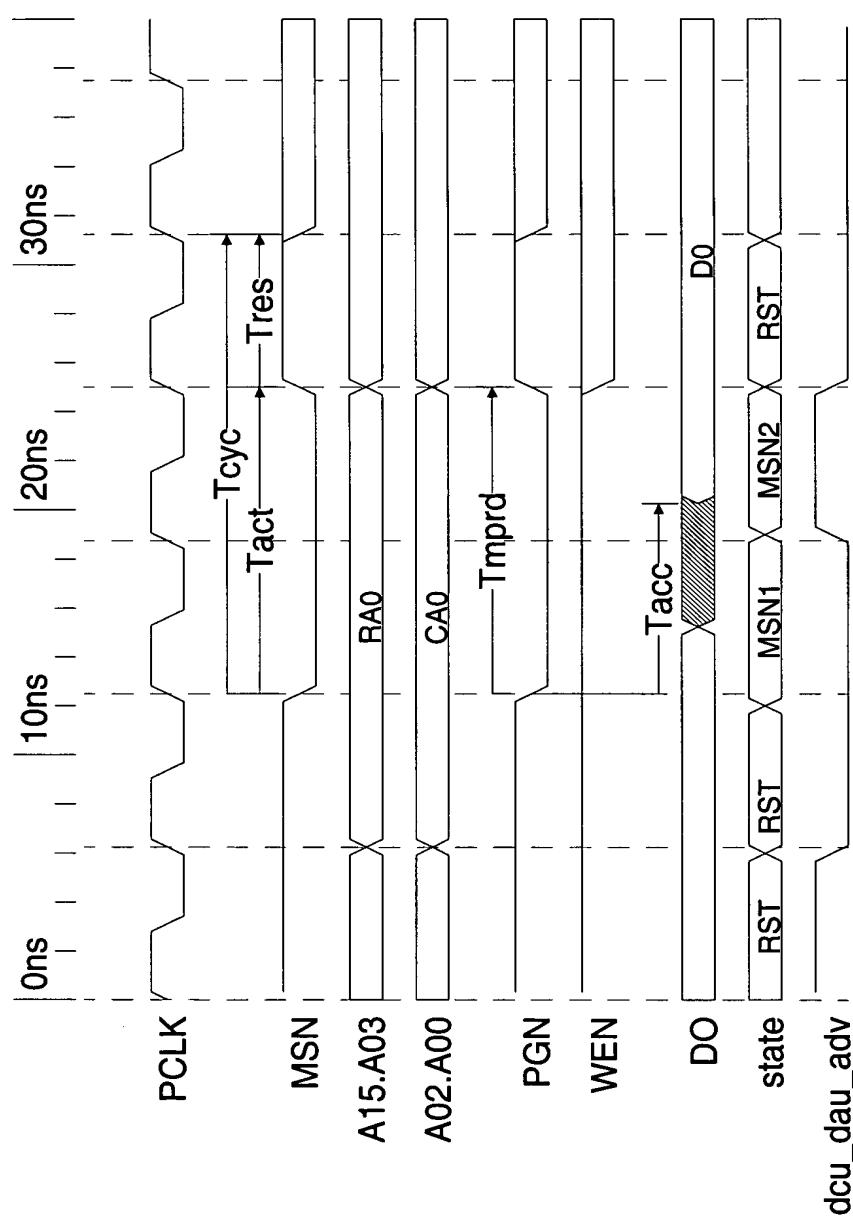


FIG. 105

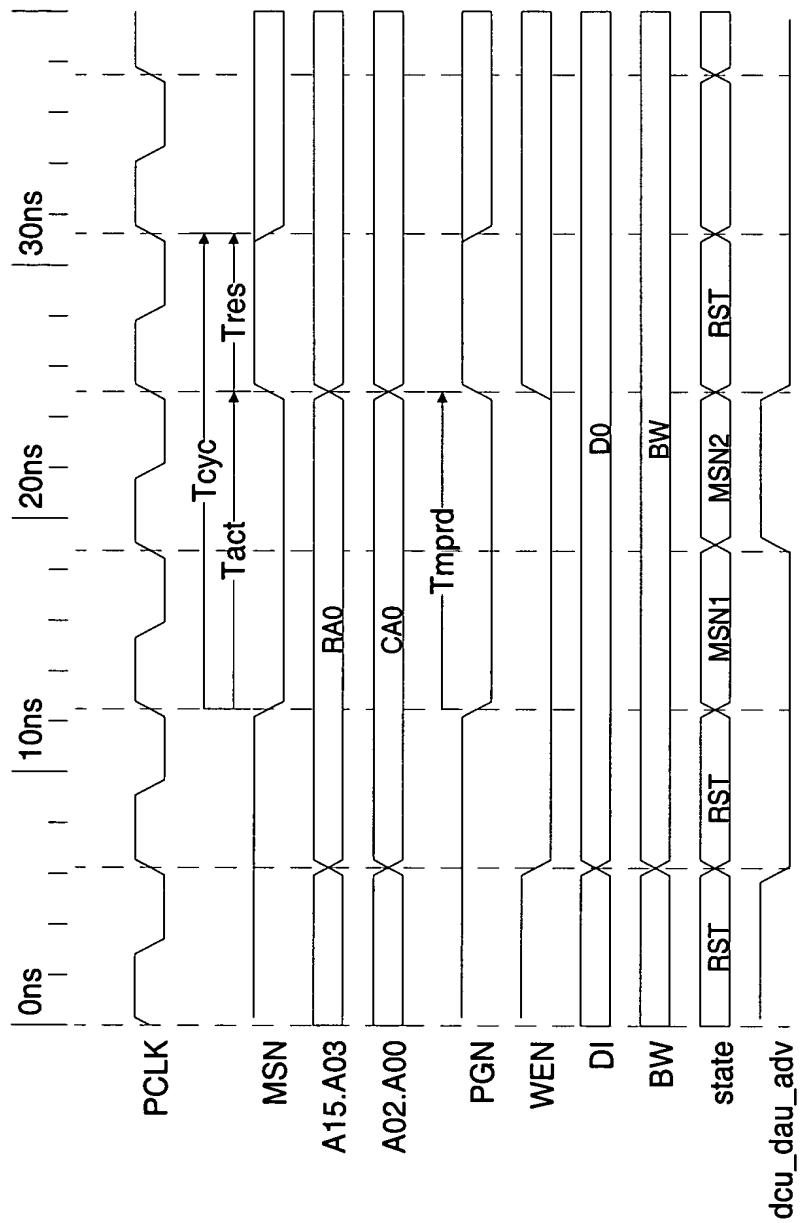


FIG. 106

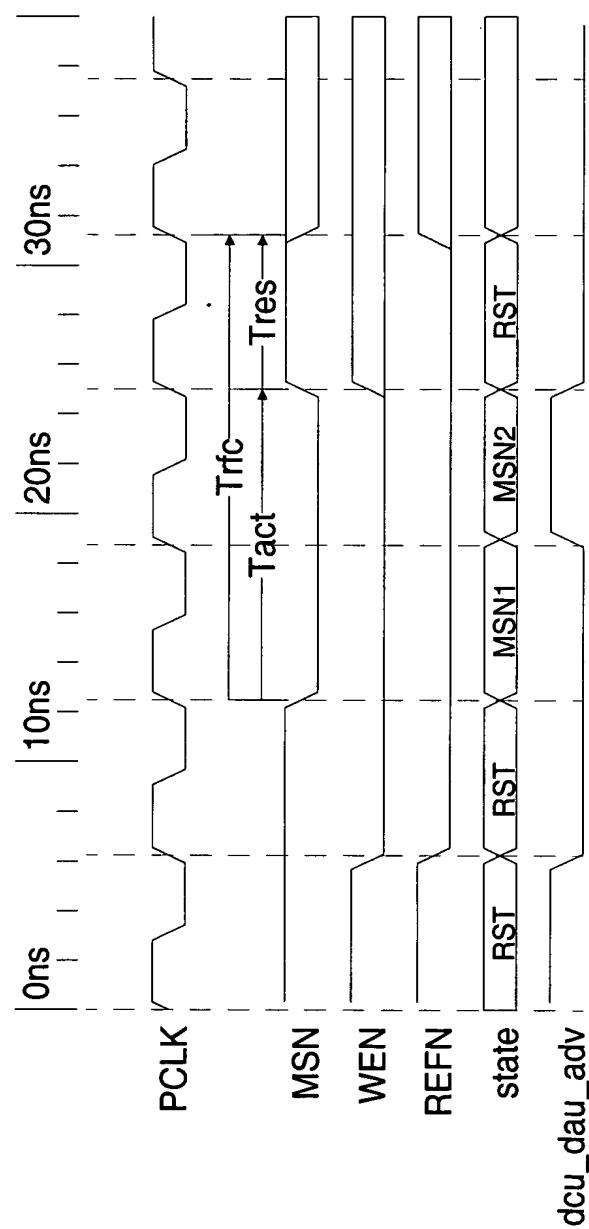


FIG. 107

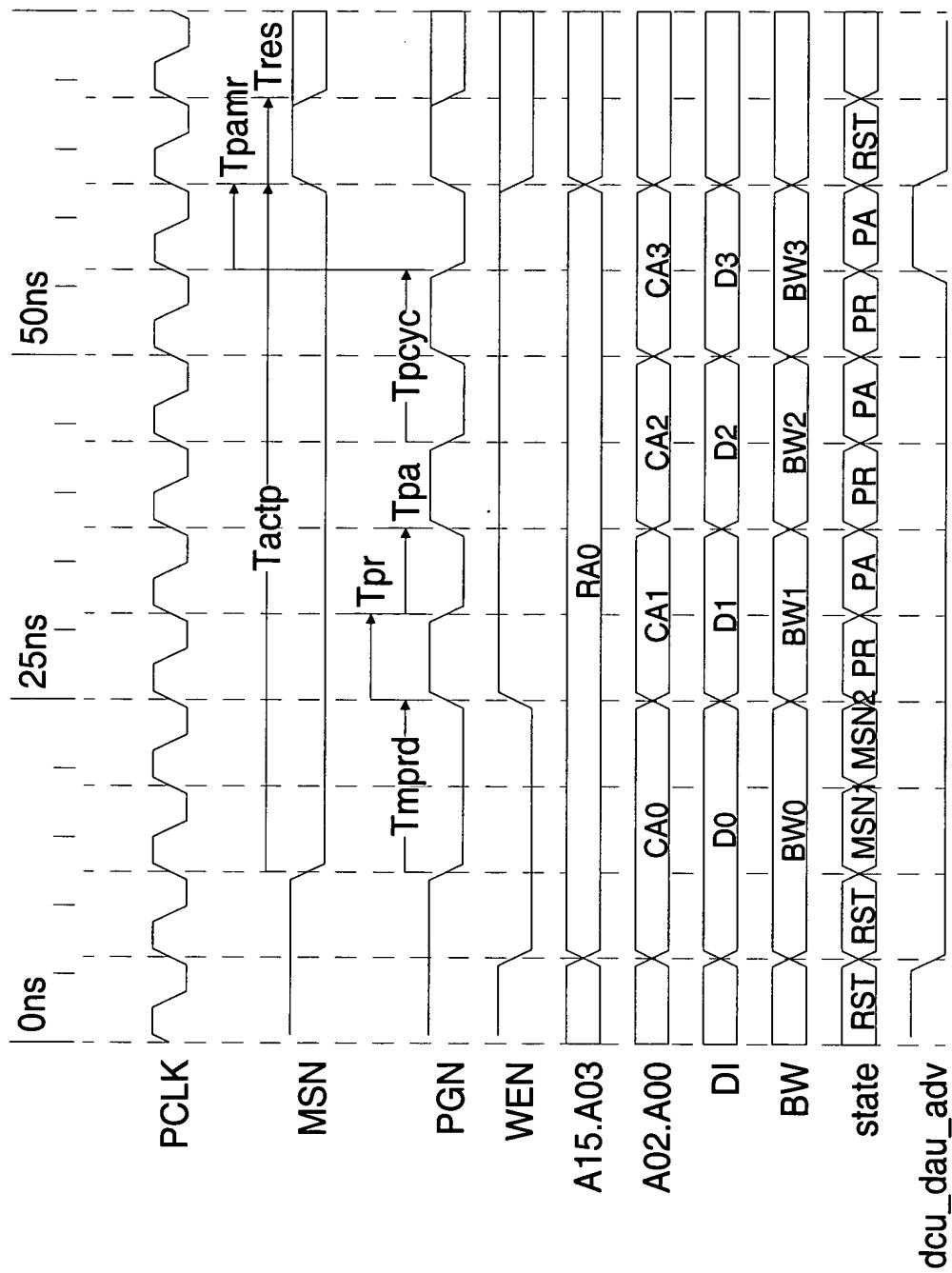


FIG. 108

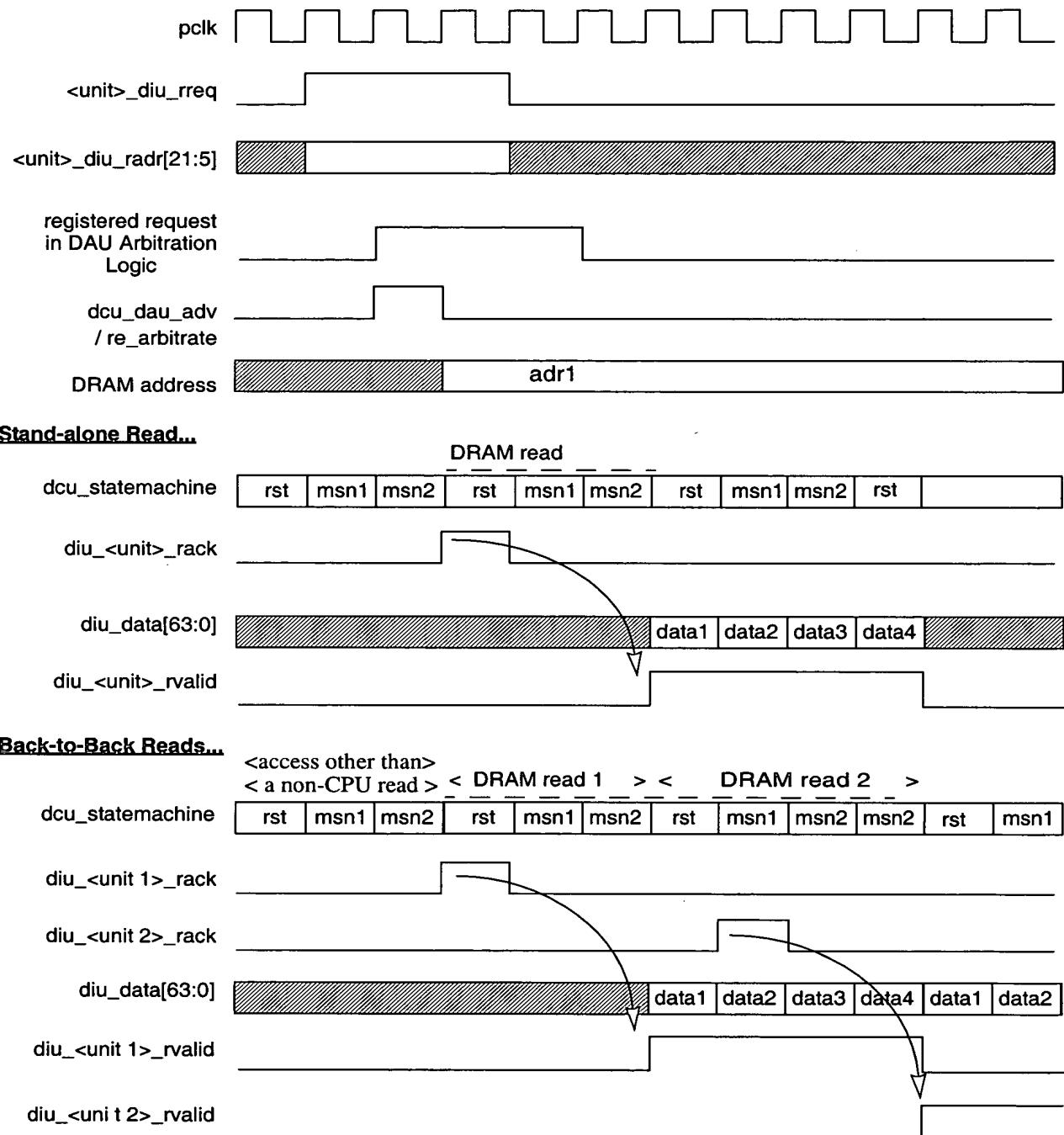


FIG. 109

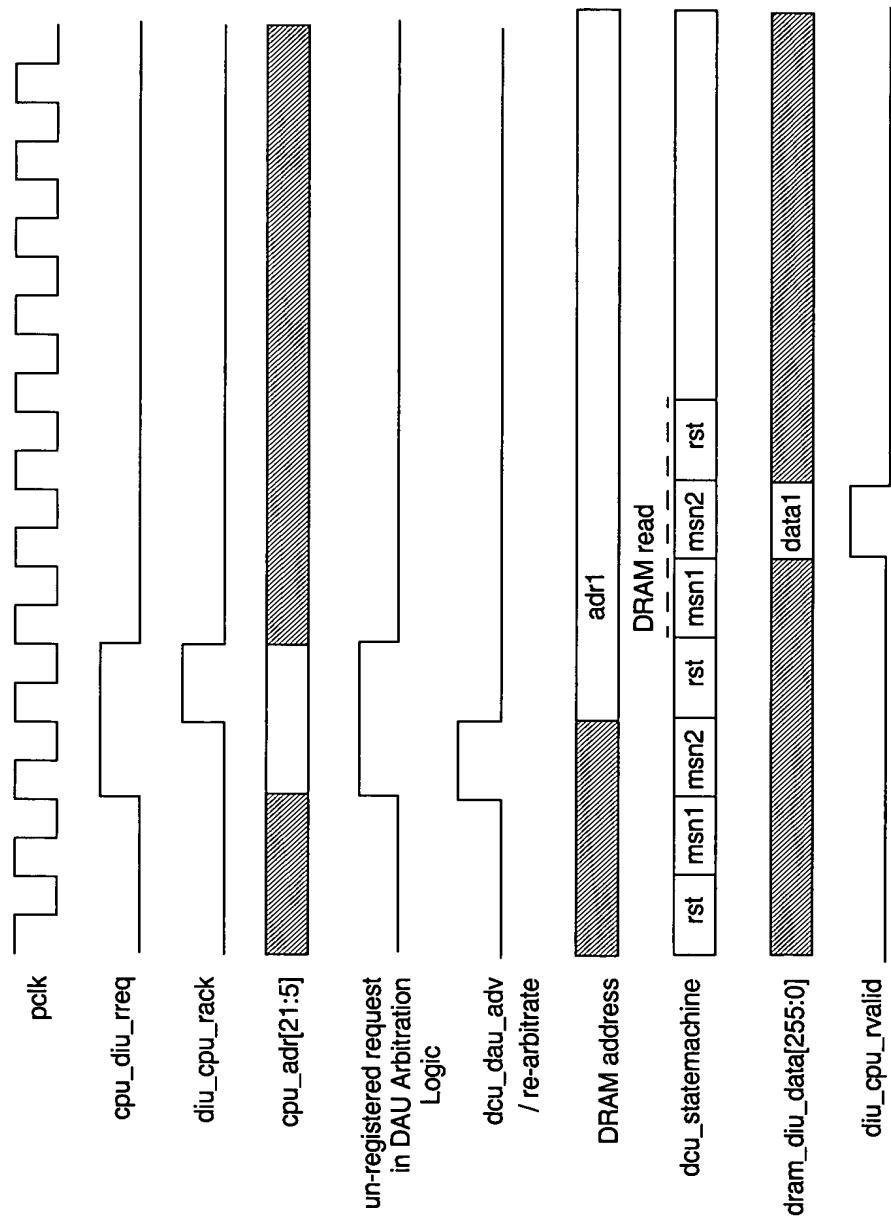


FIG. 110

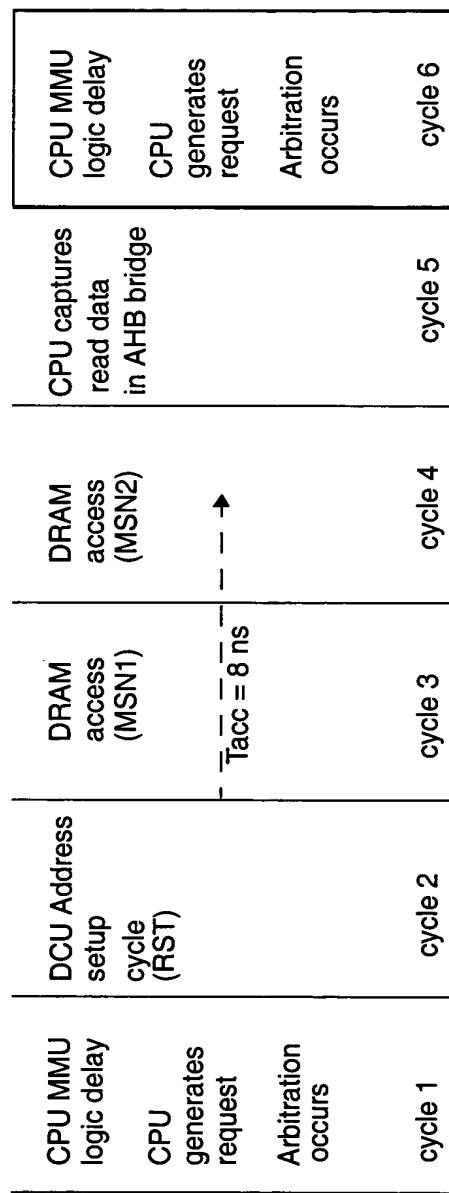


FIG. 111

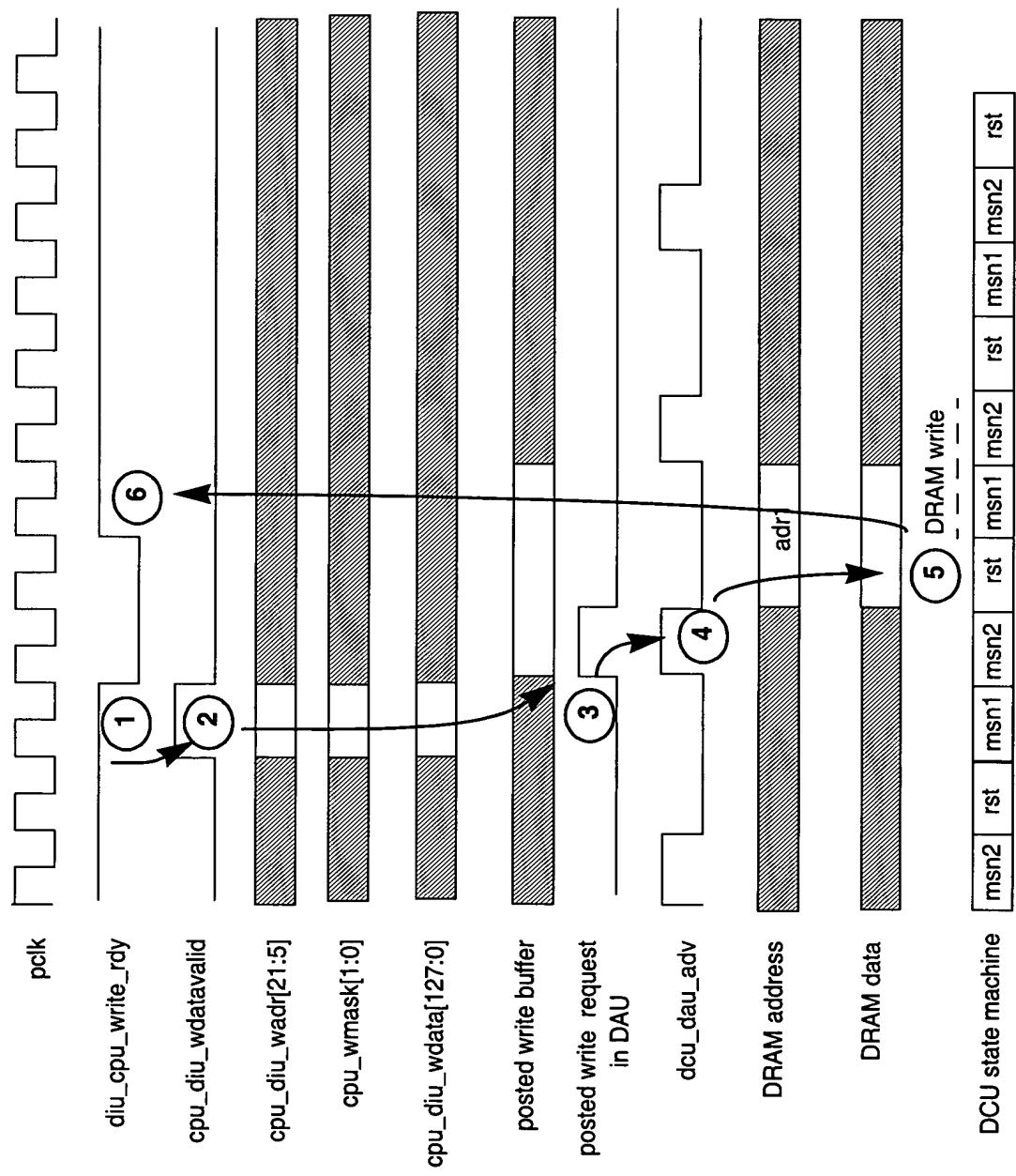


FIG. 112

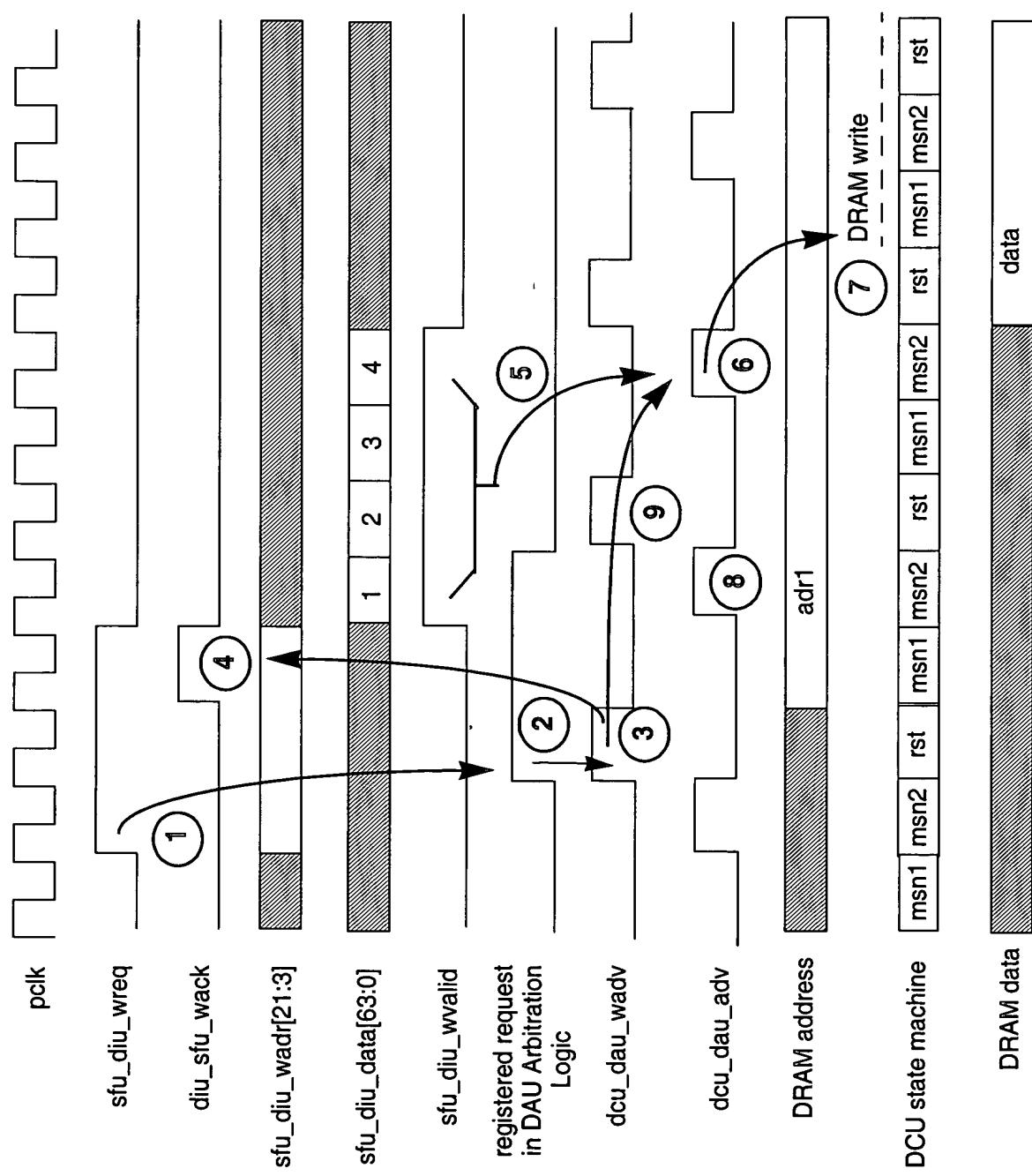


FIG. 113

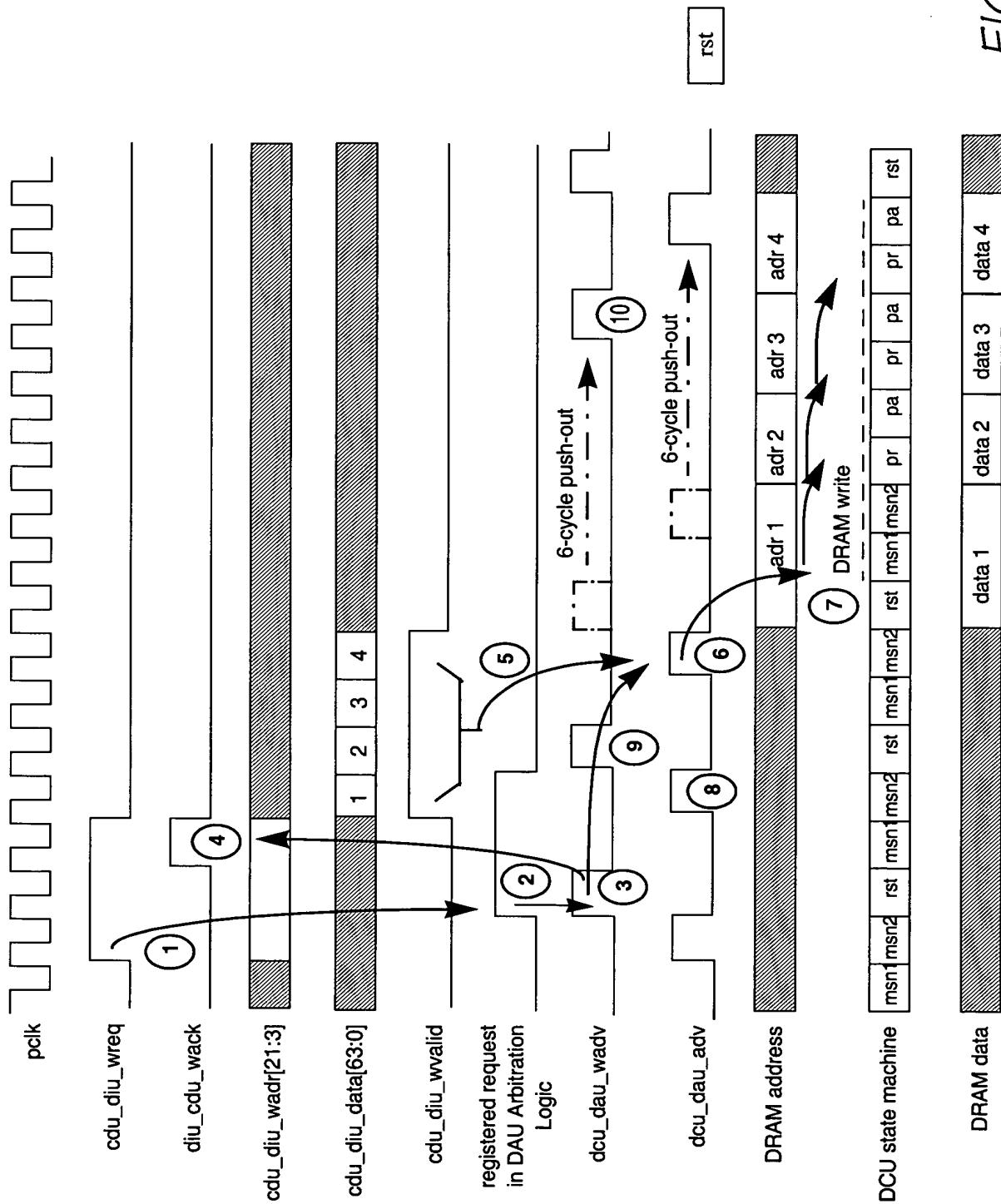
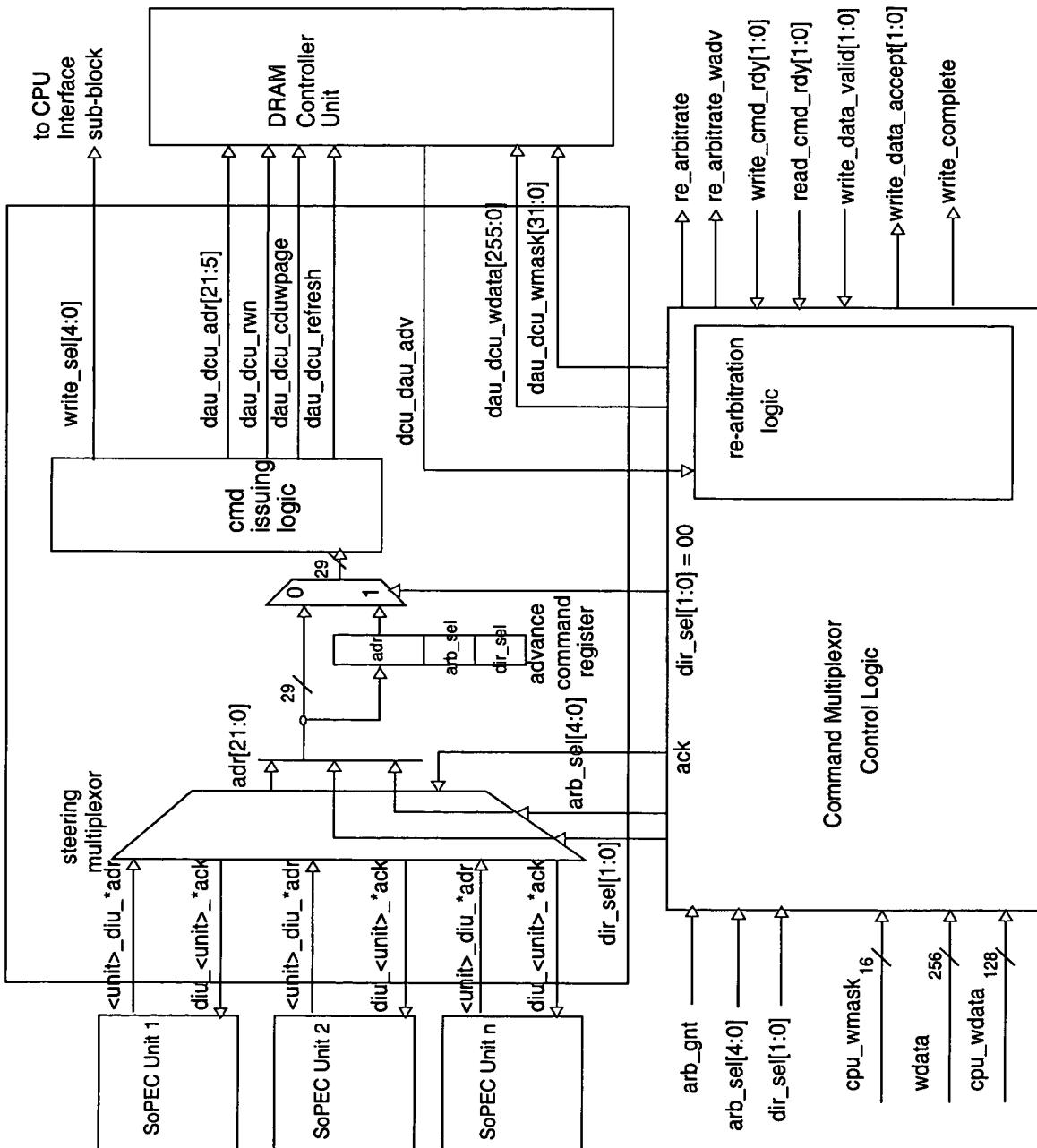


FIG. 114



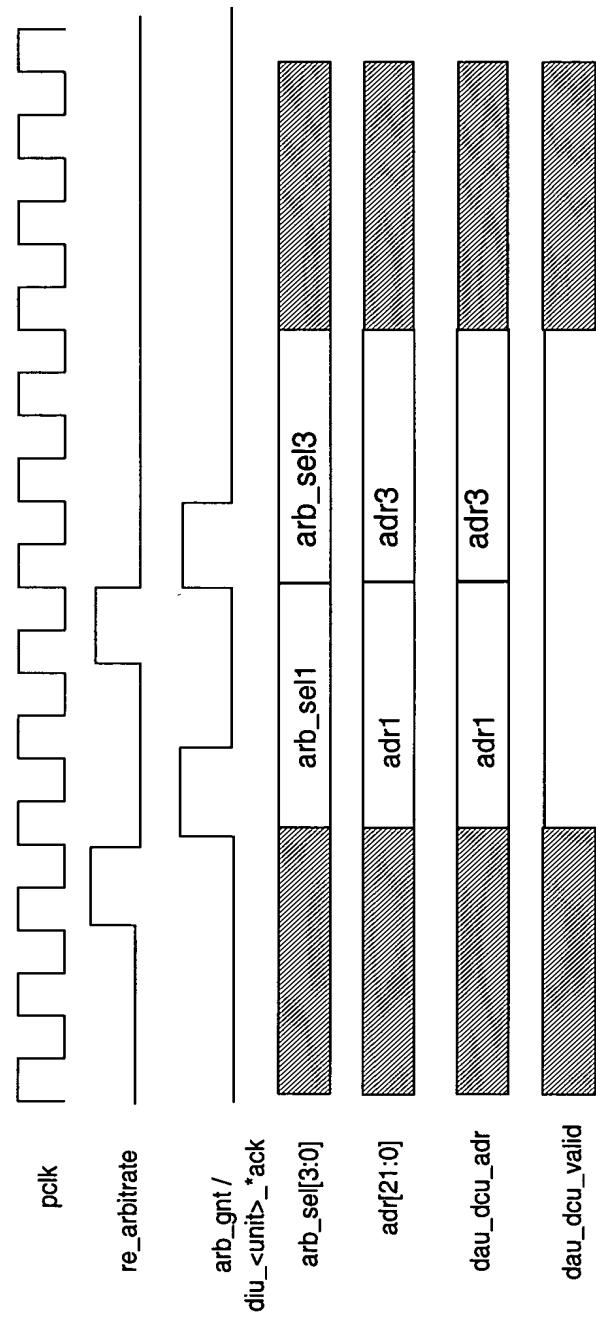


FIG. 116

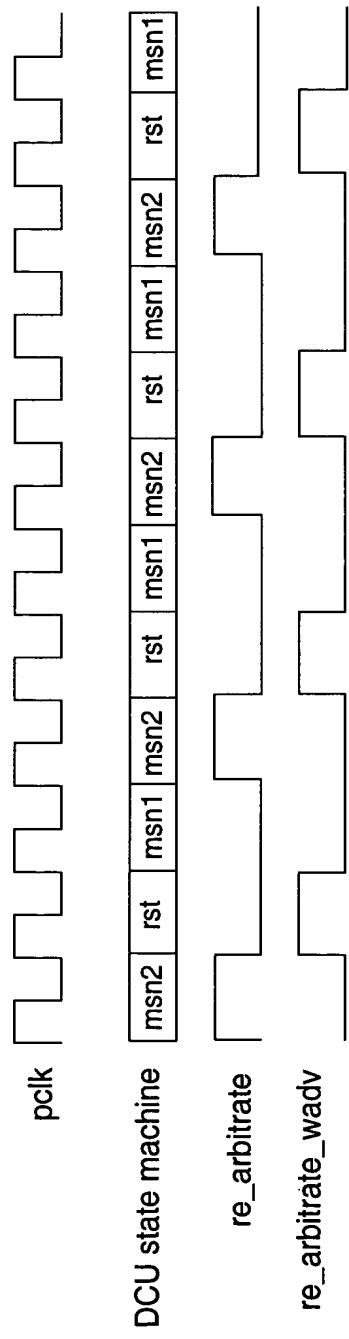


FIG. 117

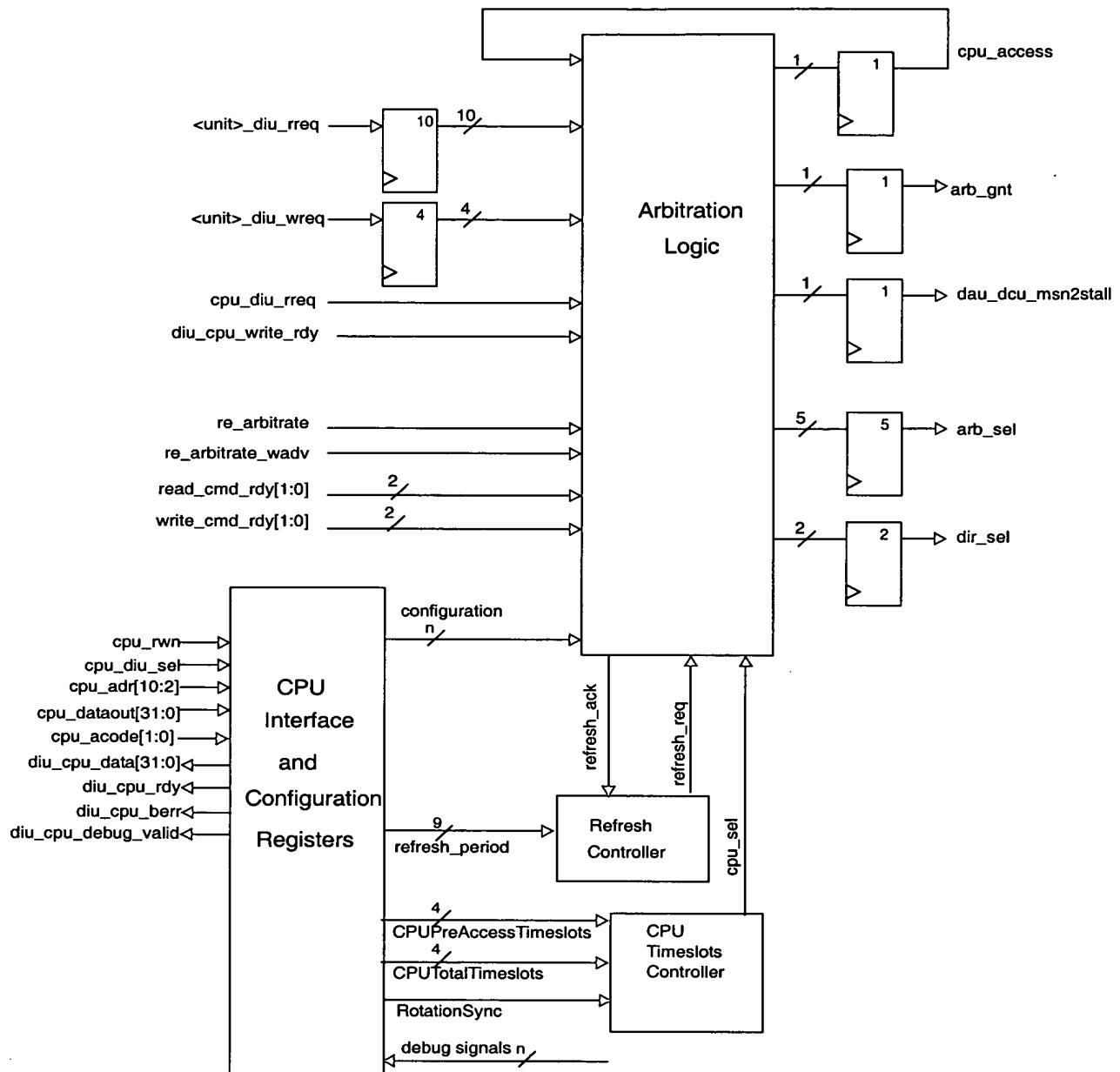


FIG. 118

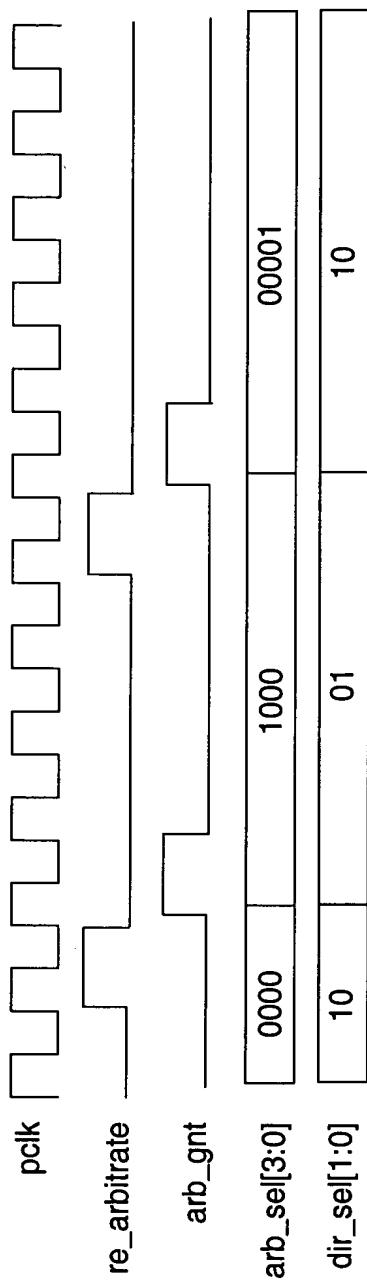


FIG. 119

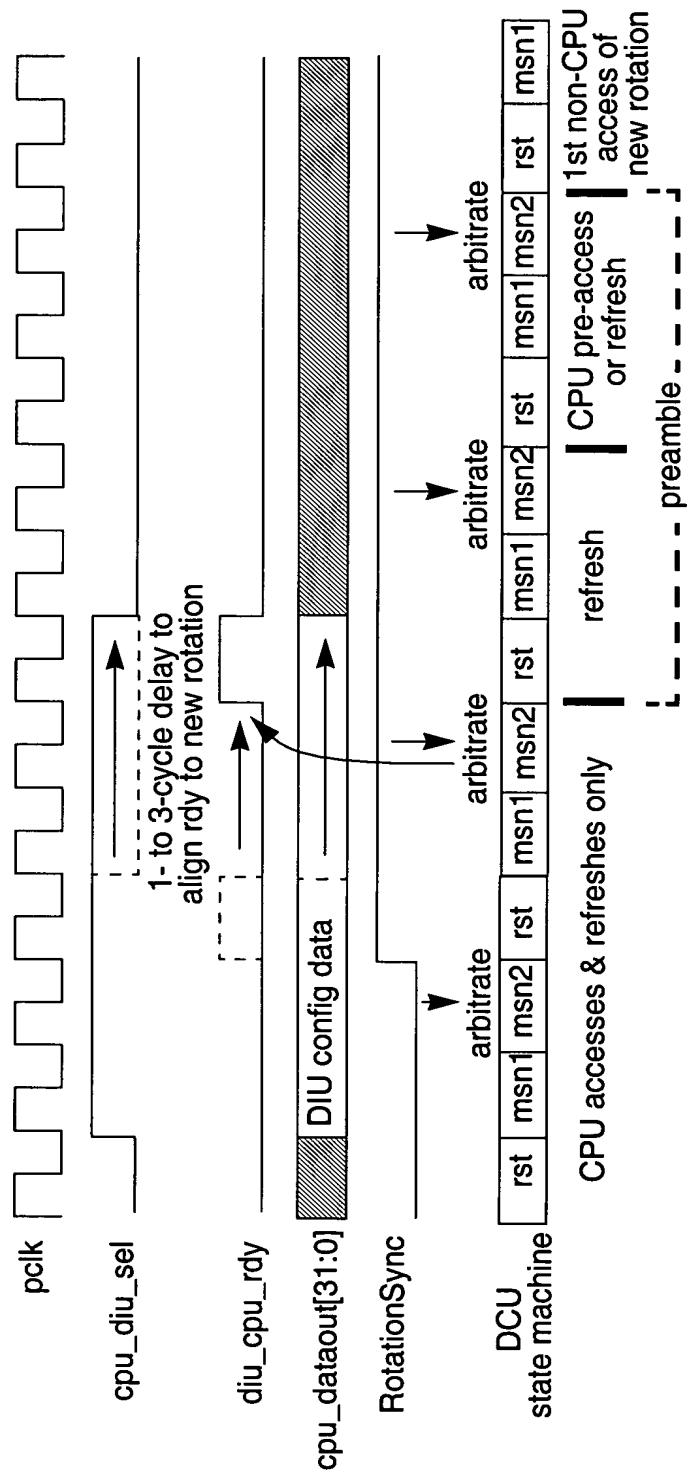


FIG. 120

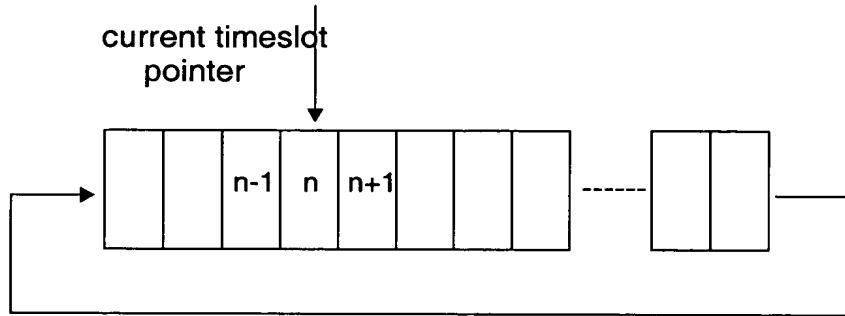


FIG. 121

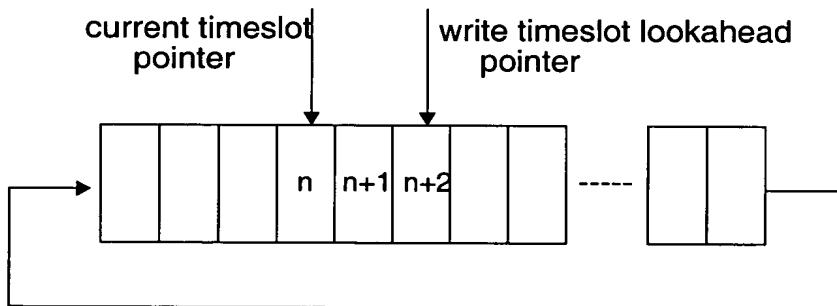


FIG. 122

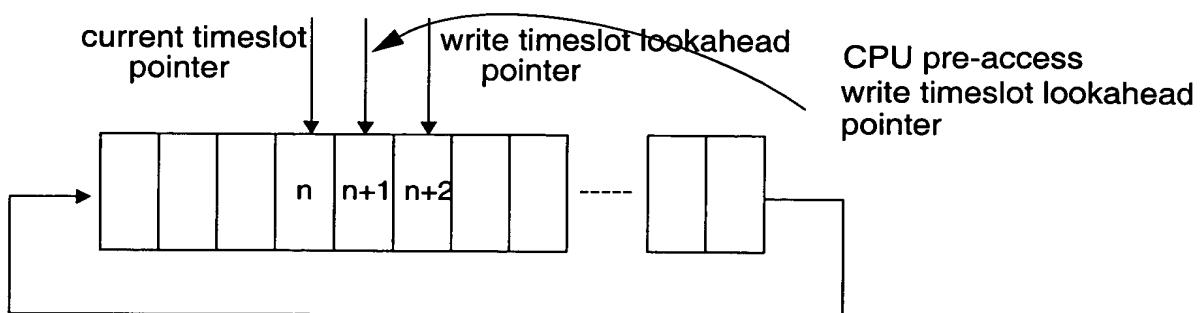


FIG. 123

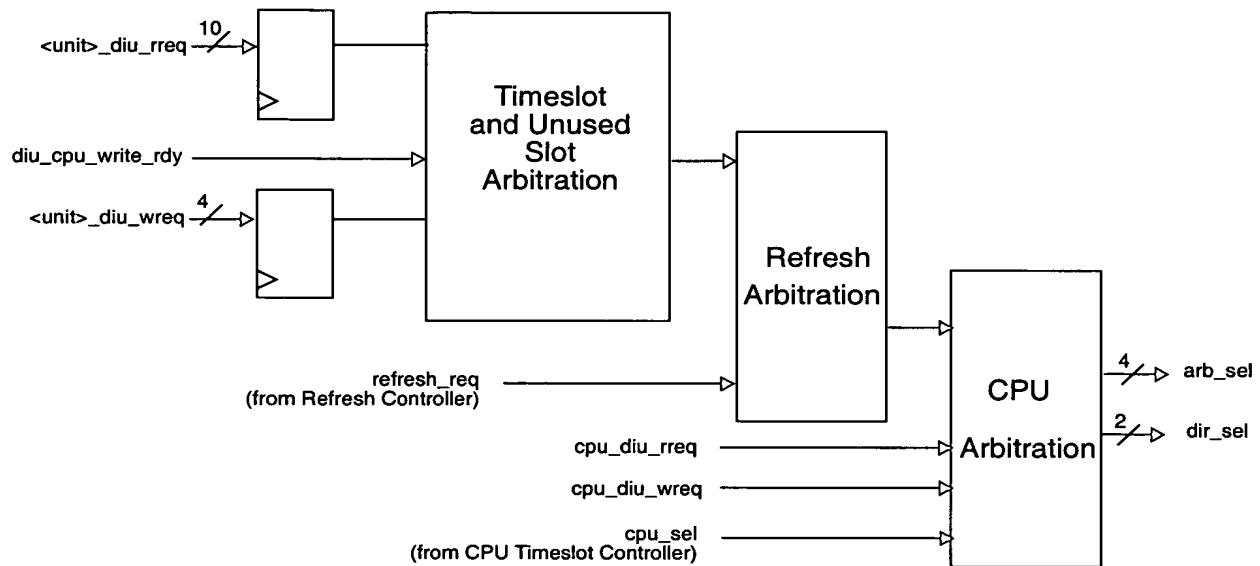


FIG. 124

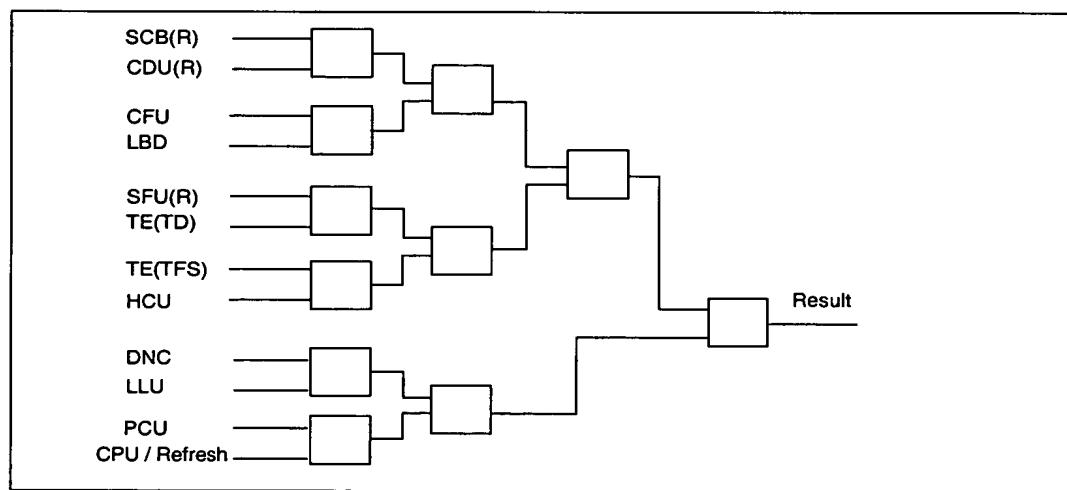
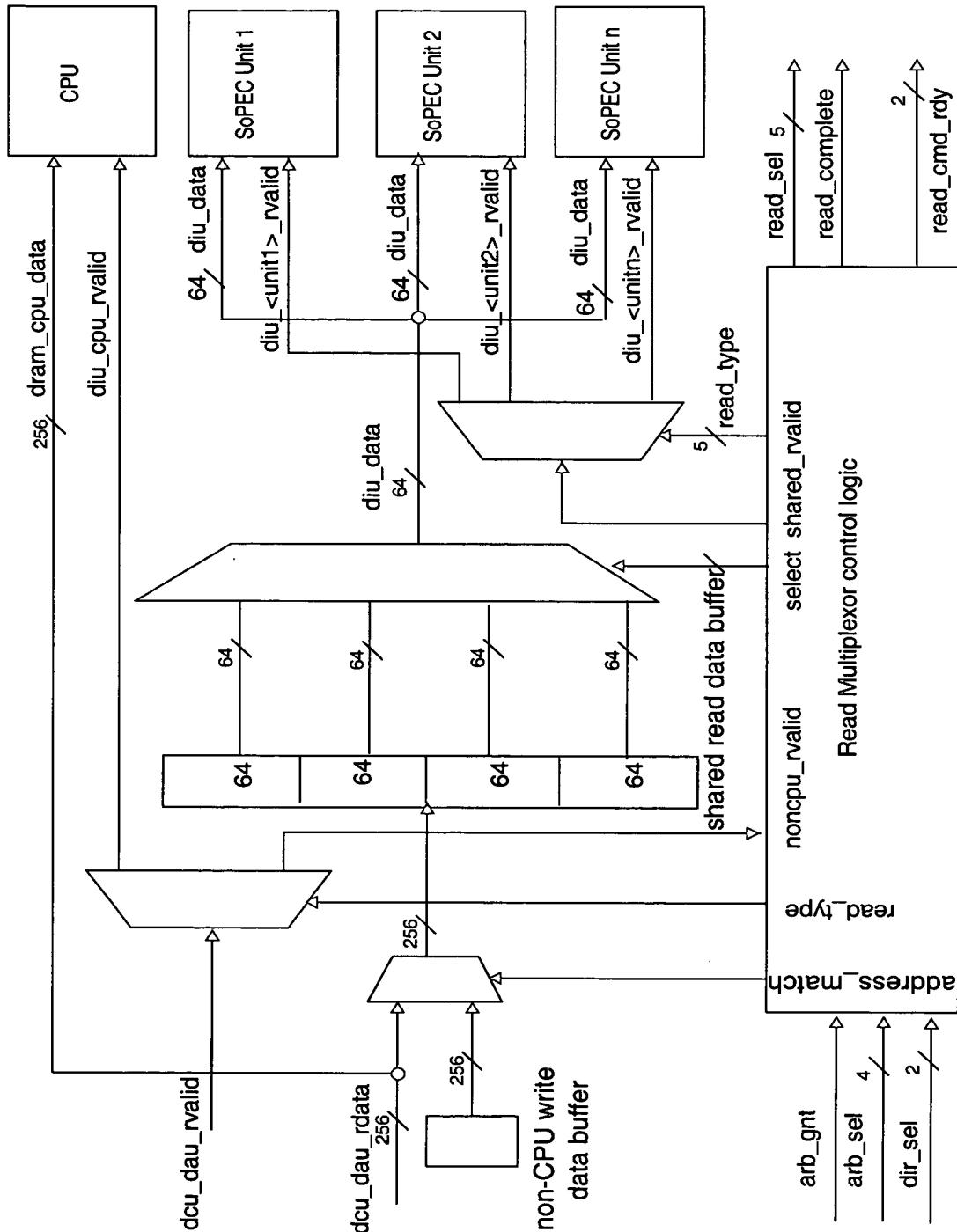


FIG. 125



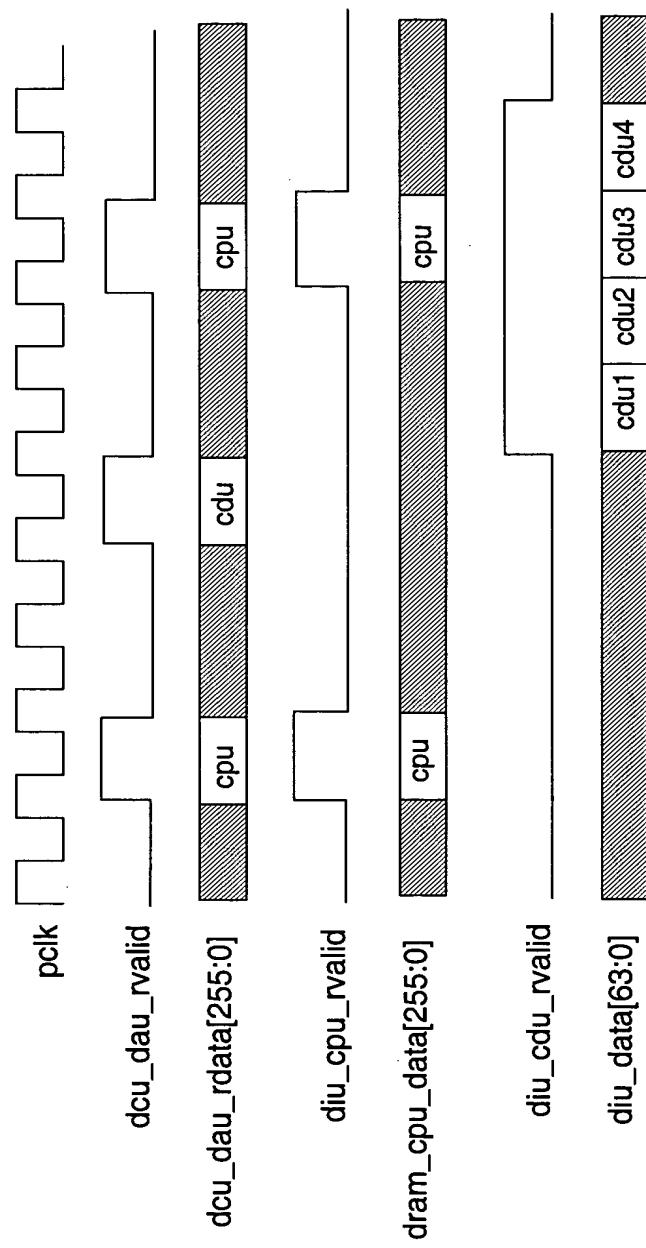


FIG. 127

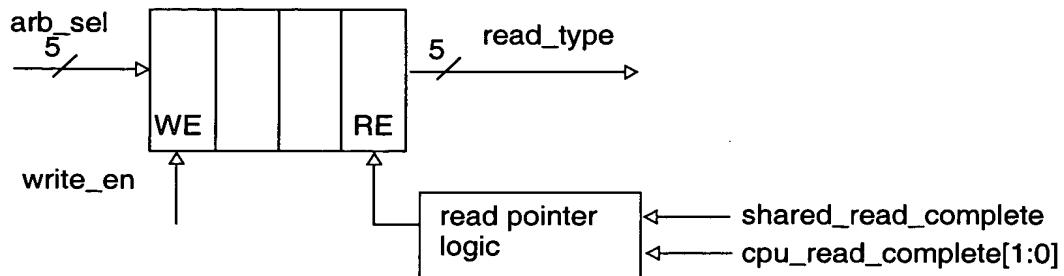


FIG. 128

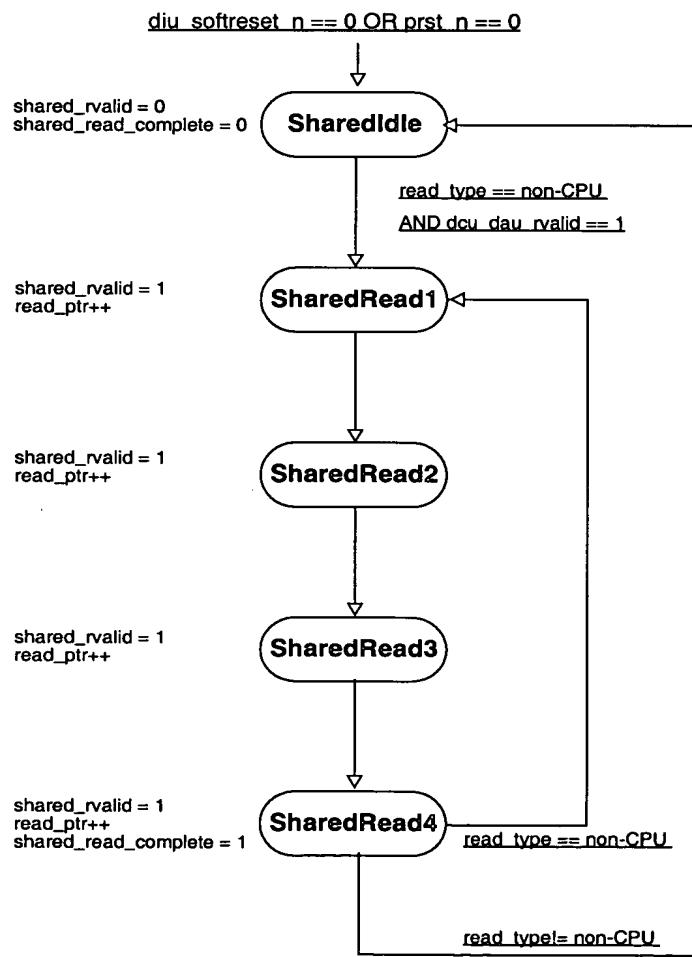


FIG. 129

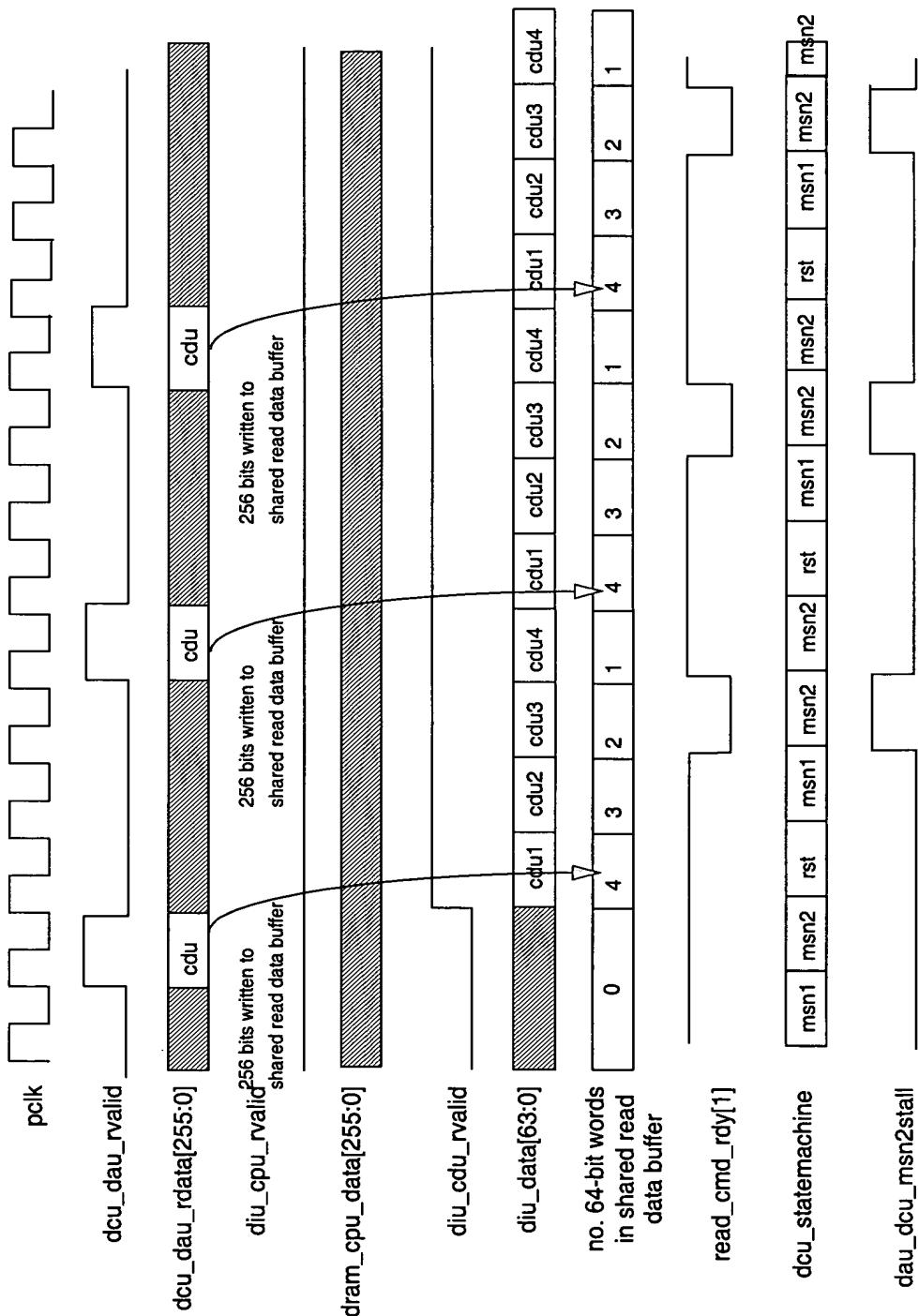


FIG. 130

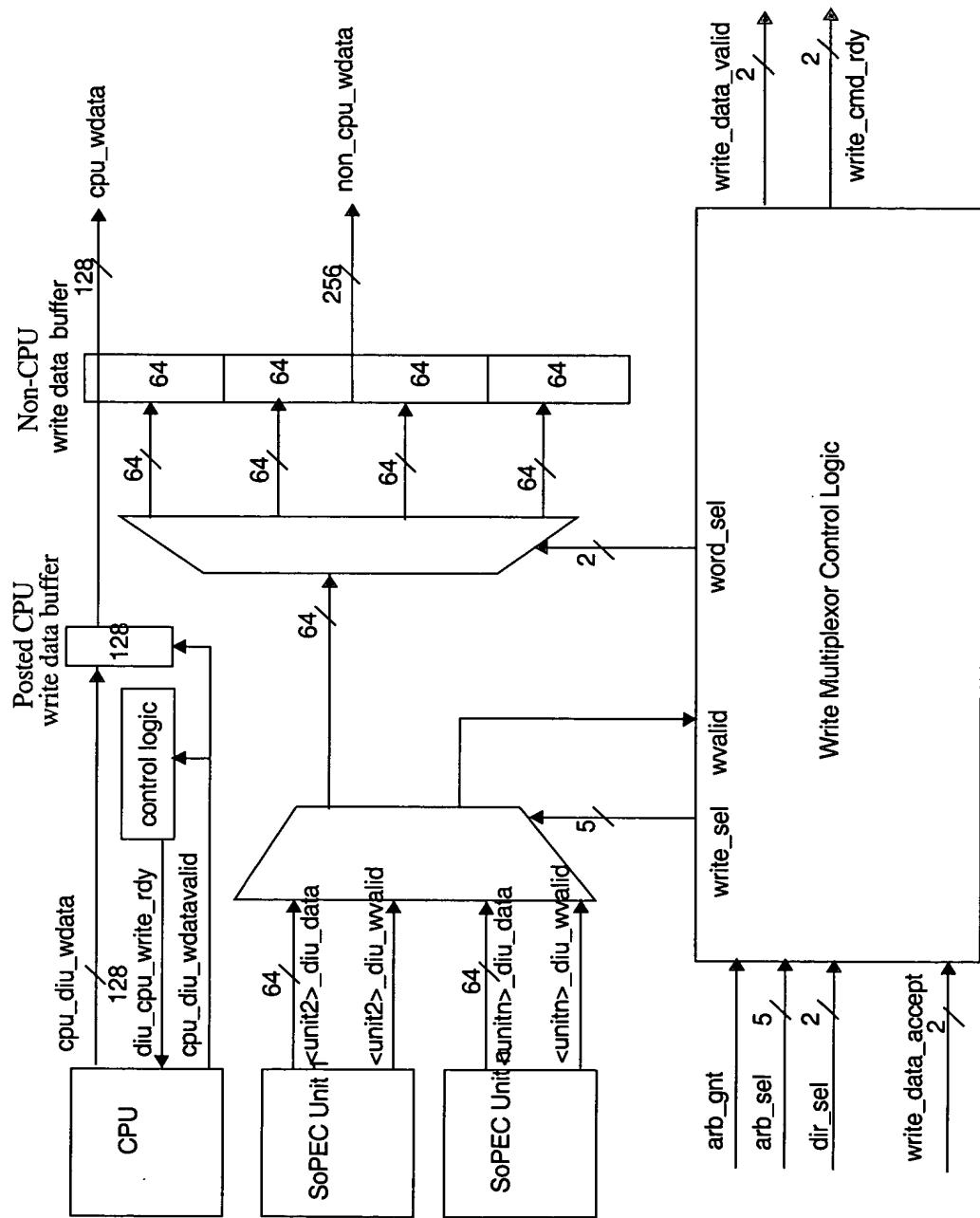


FIG. 131

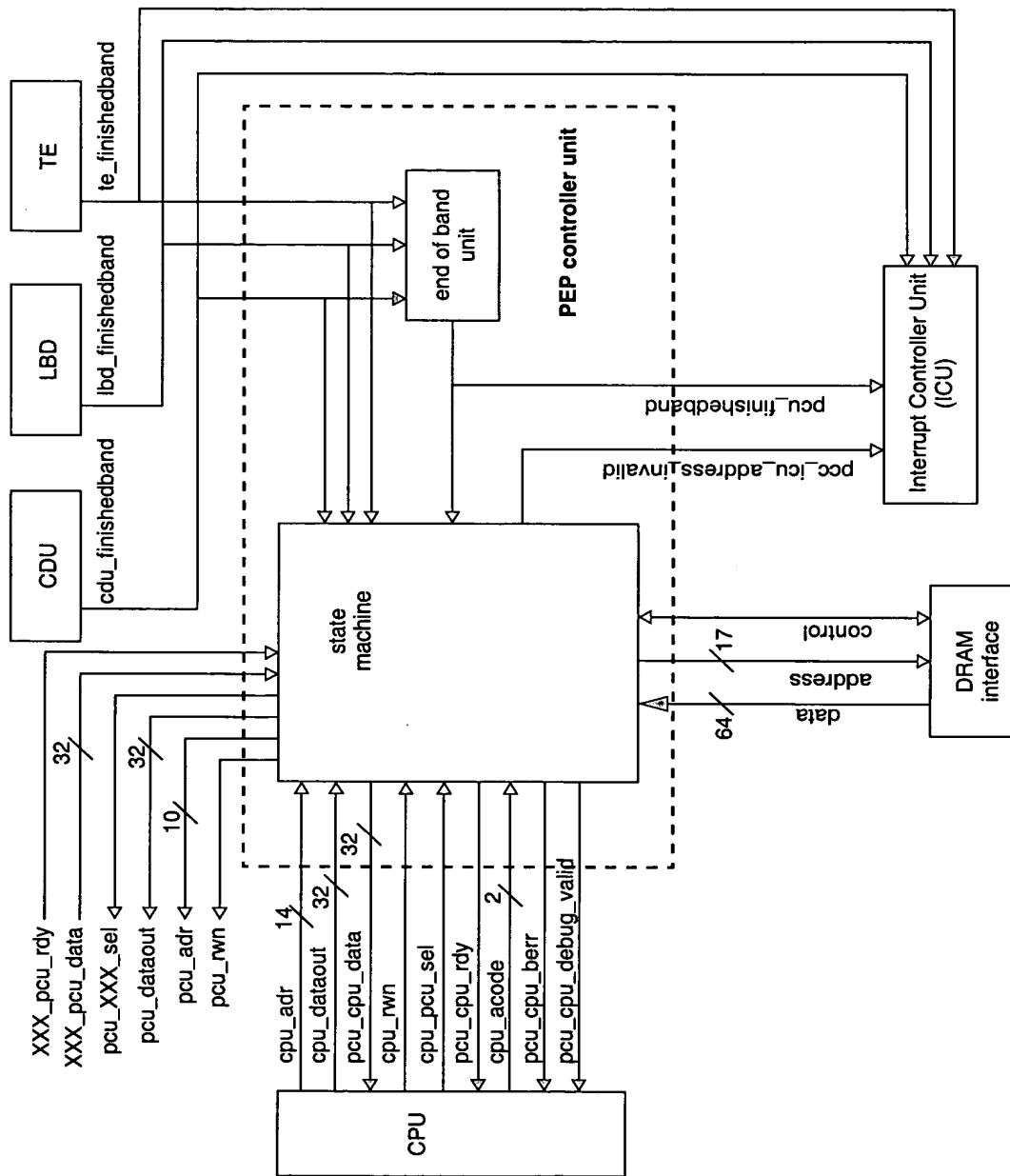


FIG. 132

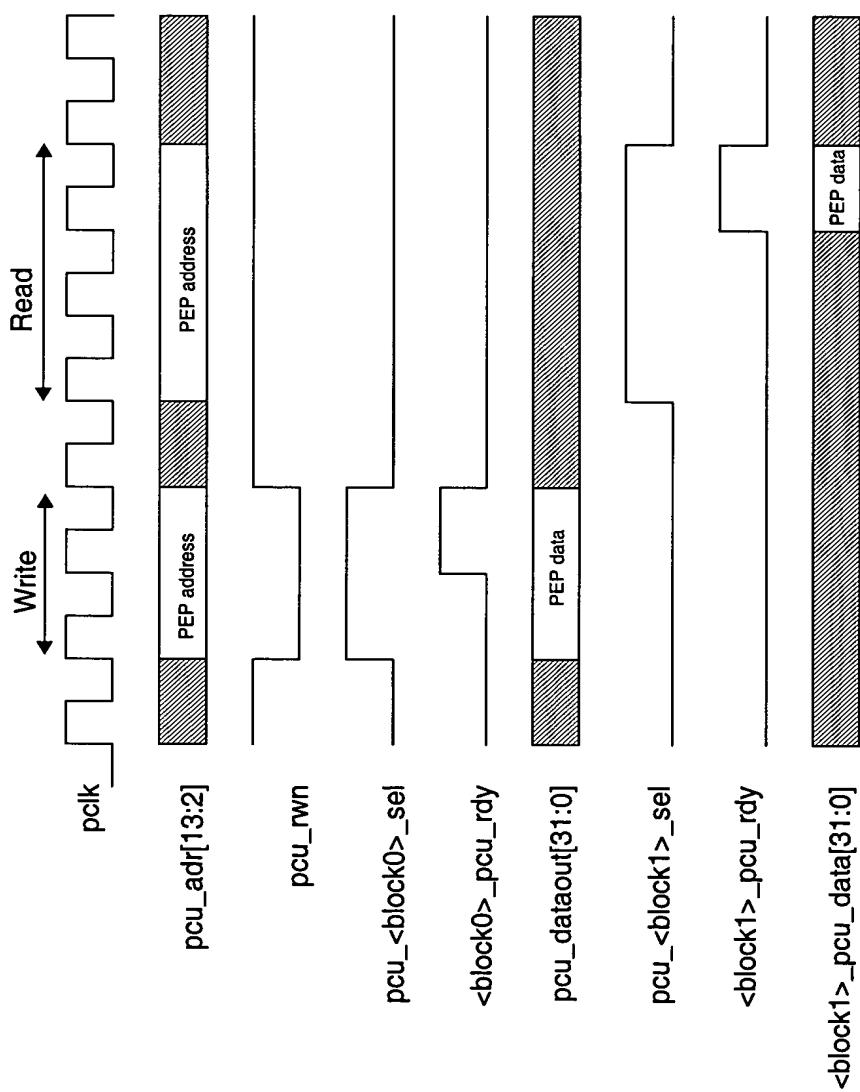


FIG. 133

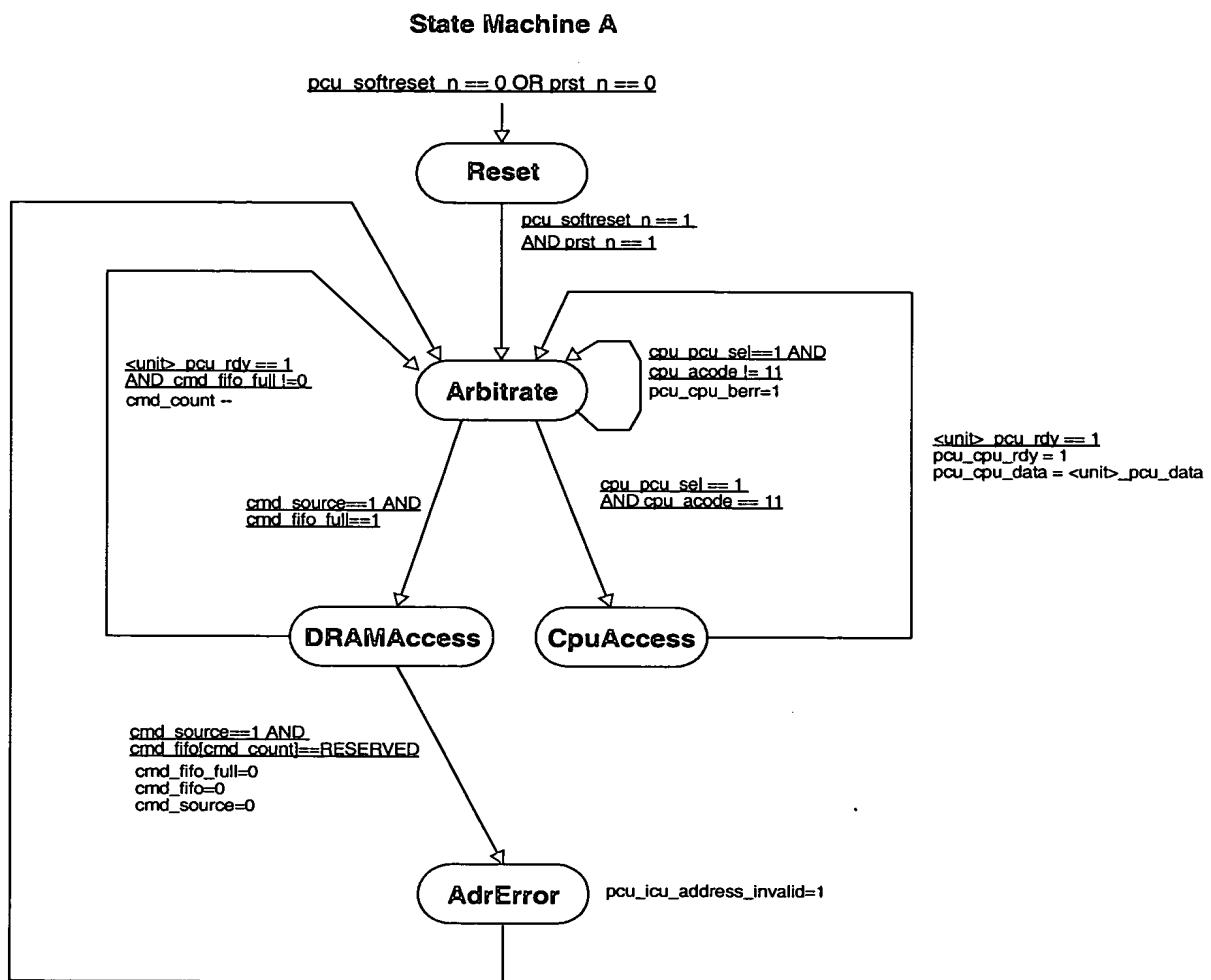


FIG. 134

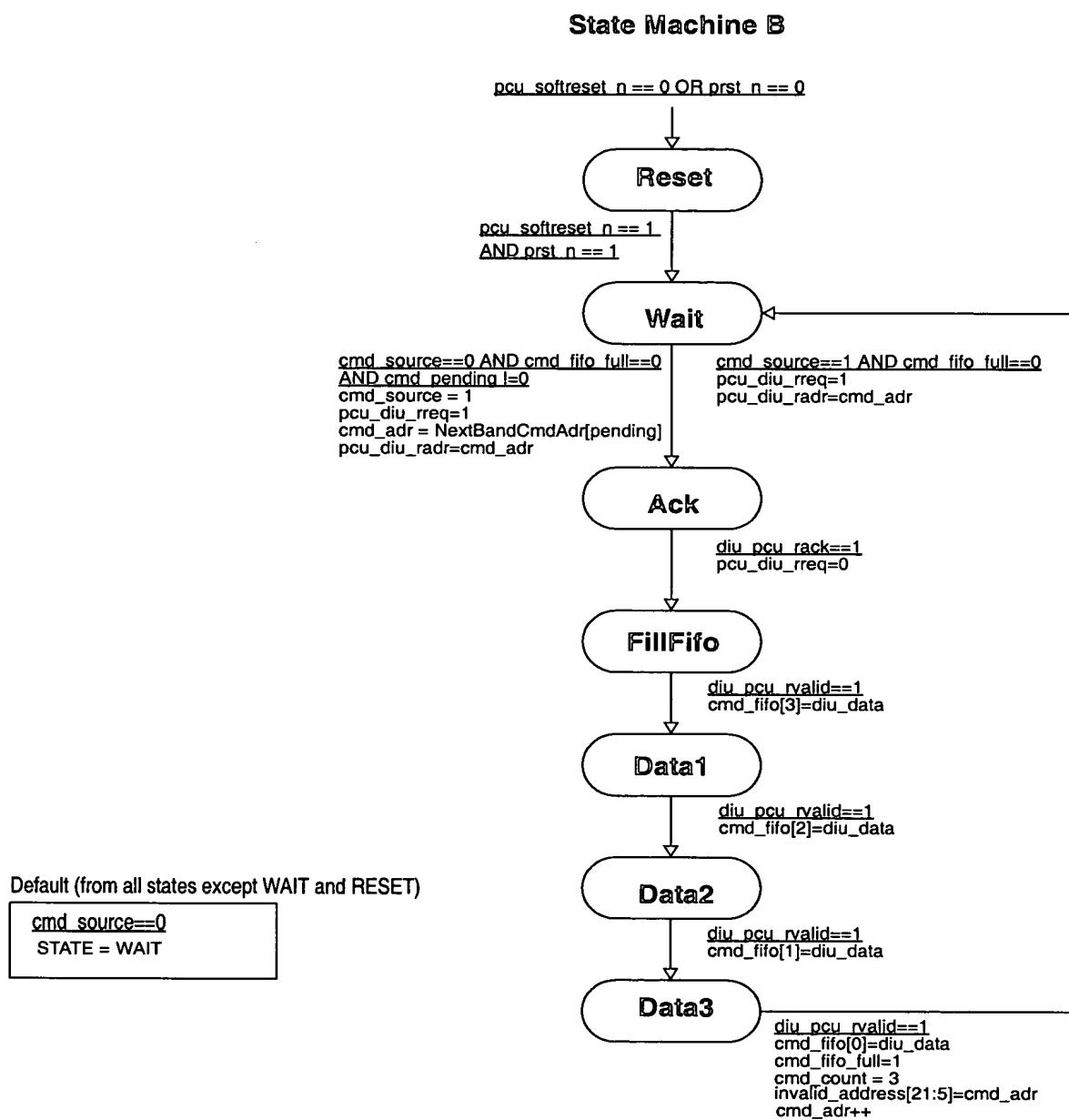


FIG. 135

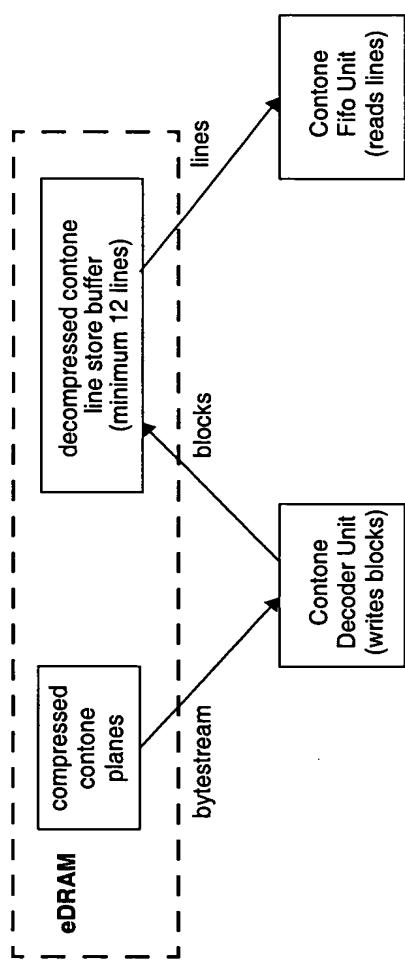


FIG. 136

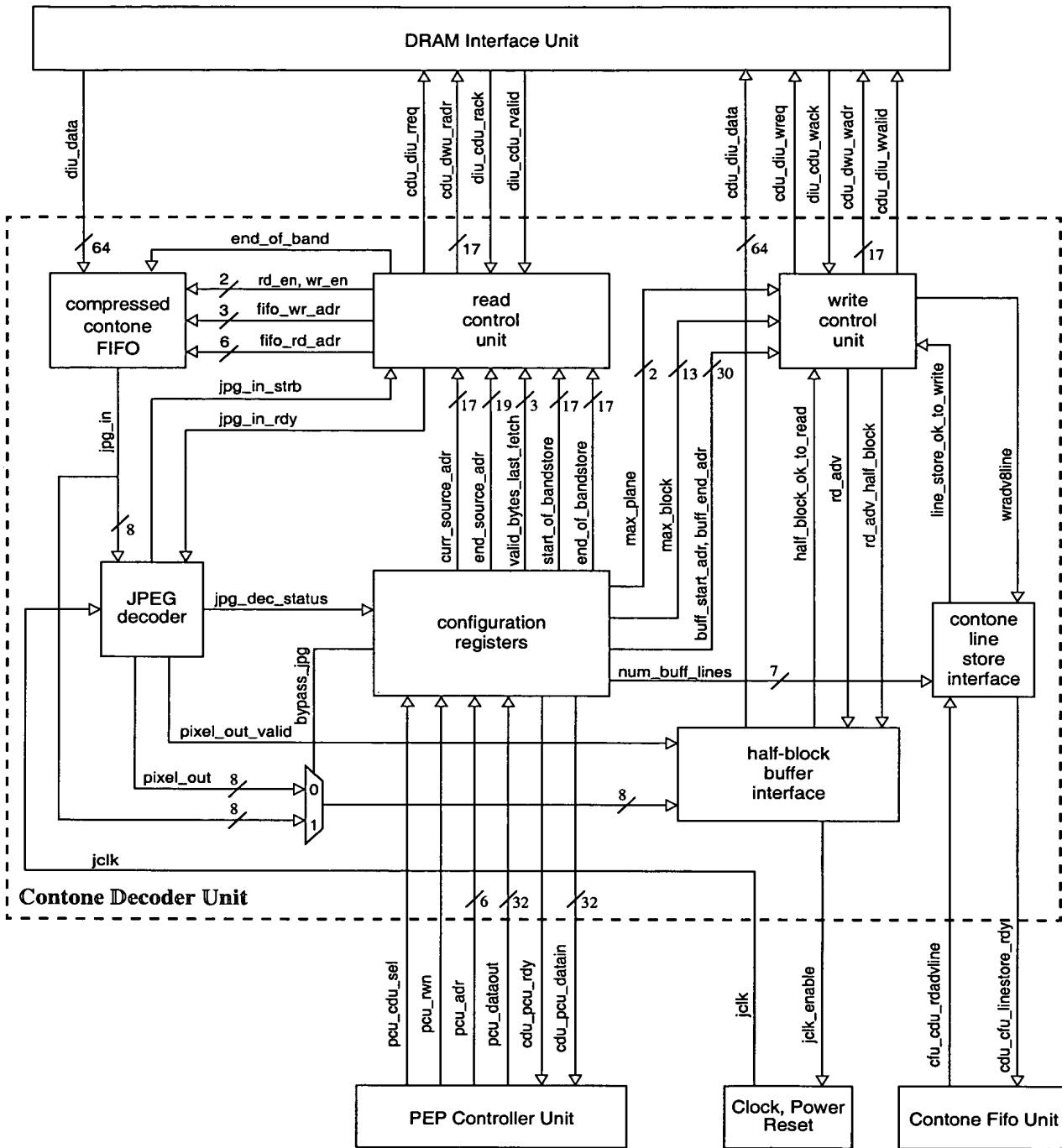


FIG. 137

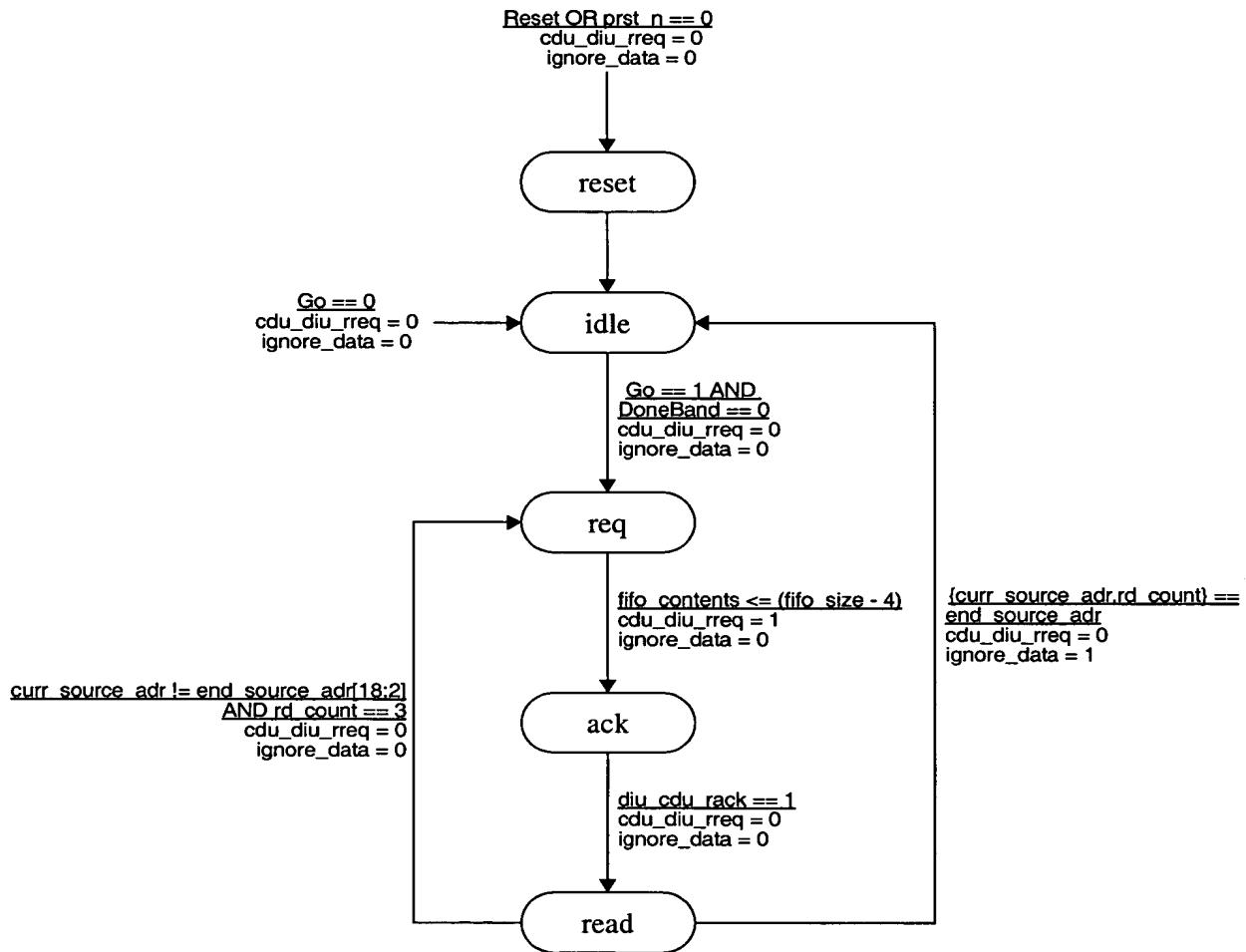


FIG. 138

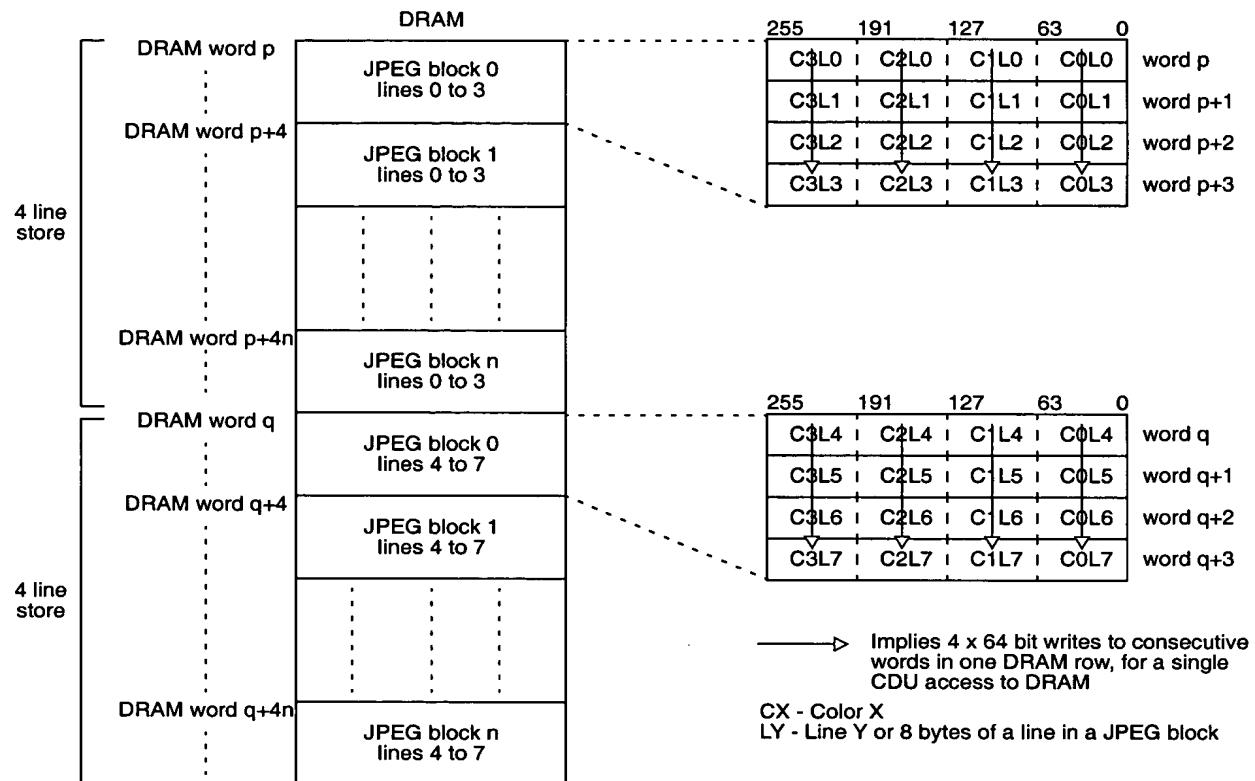


FIG. 139

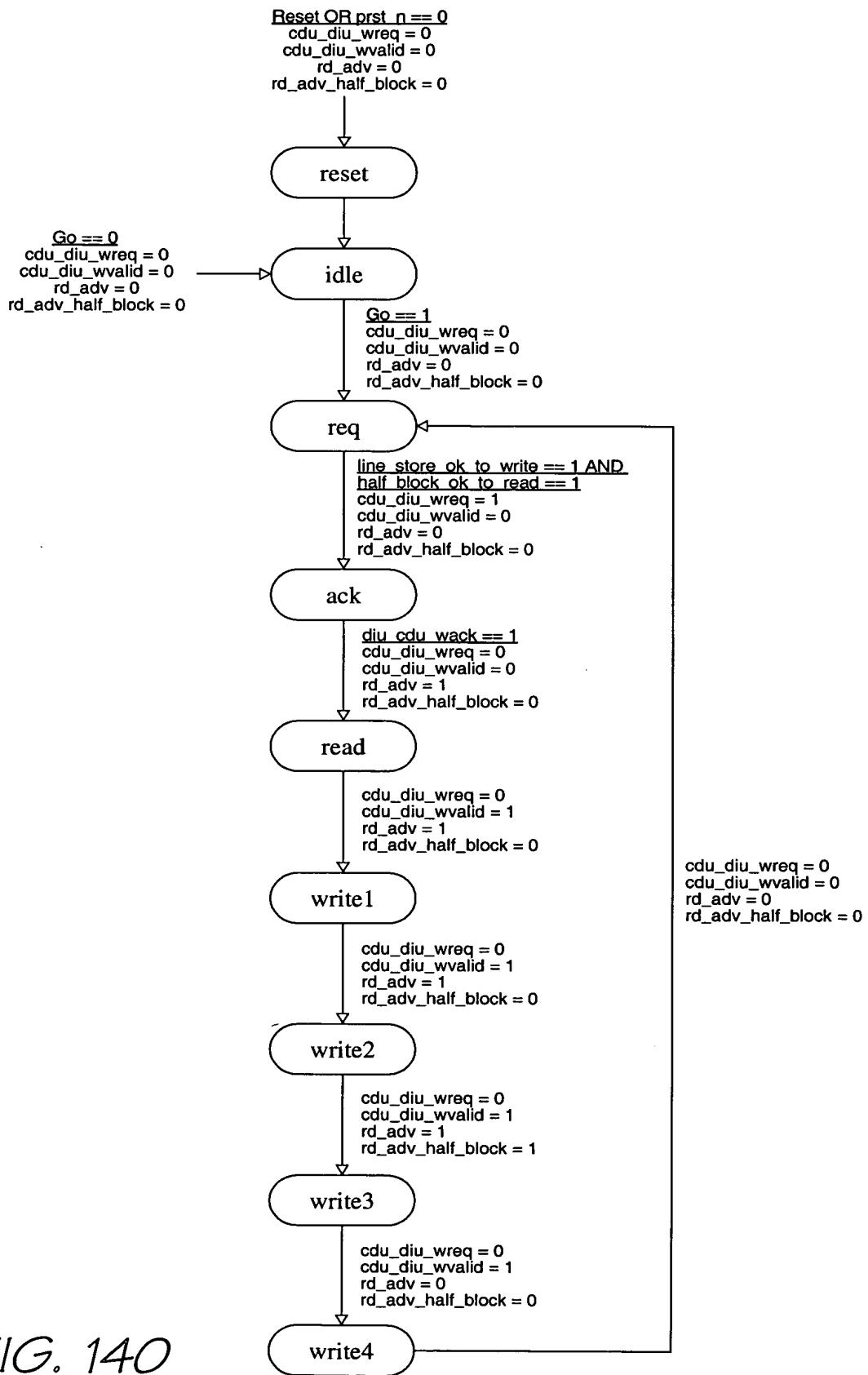


FIG. 140

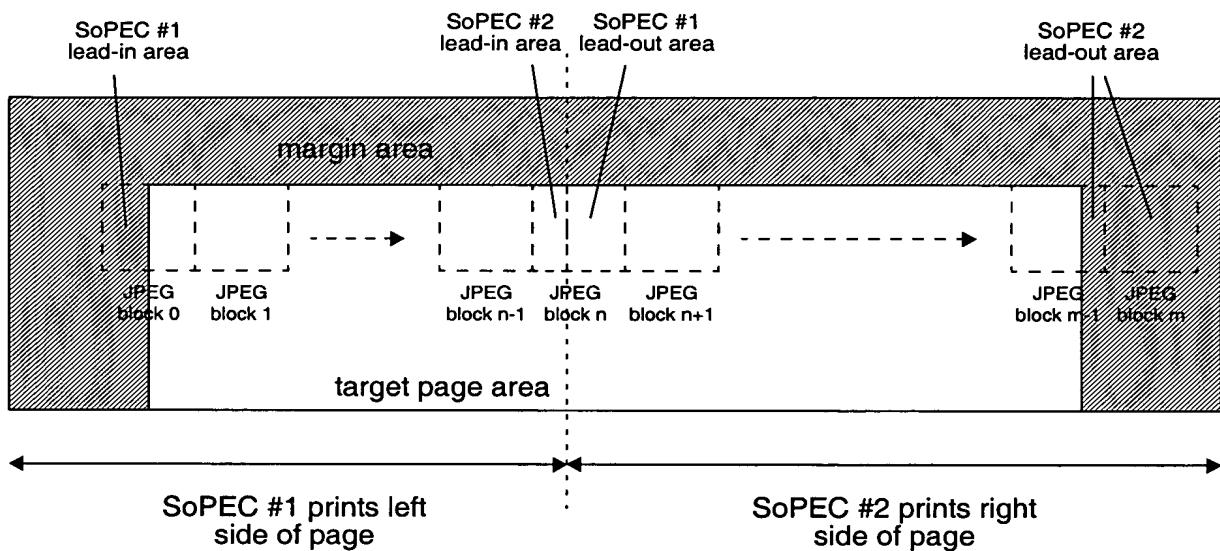


FIG. 141

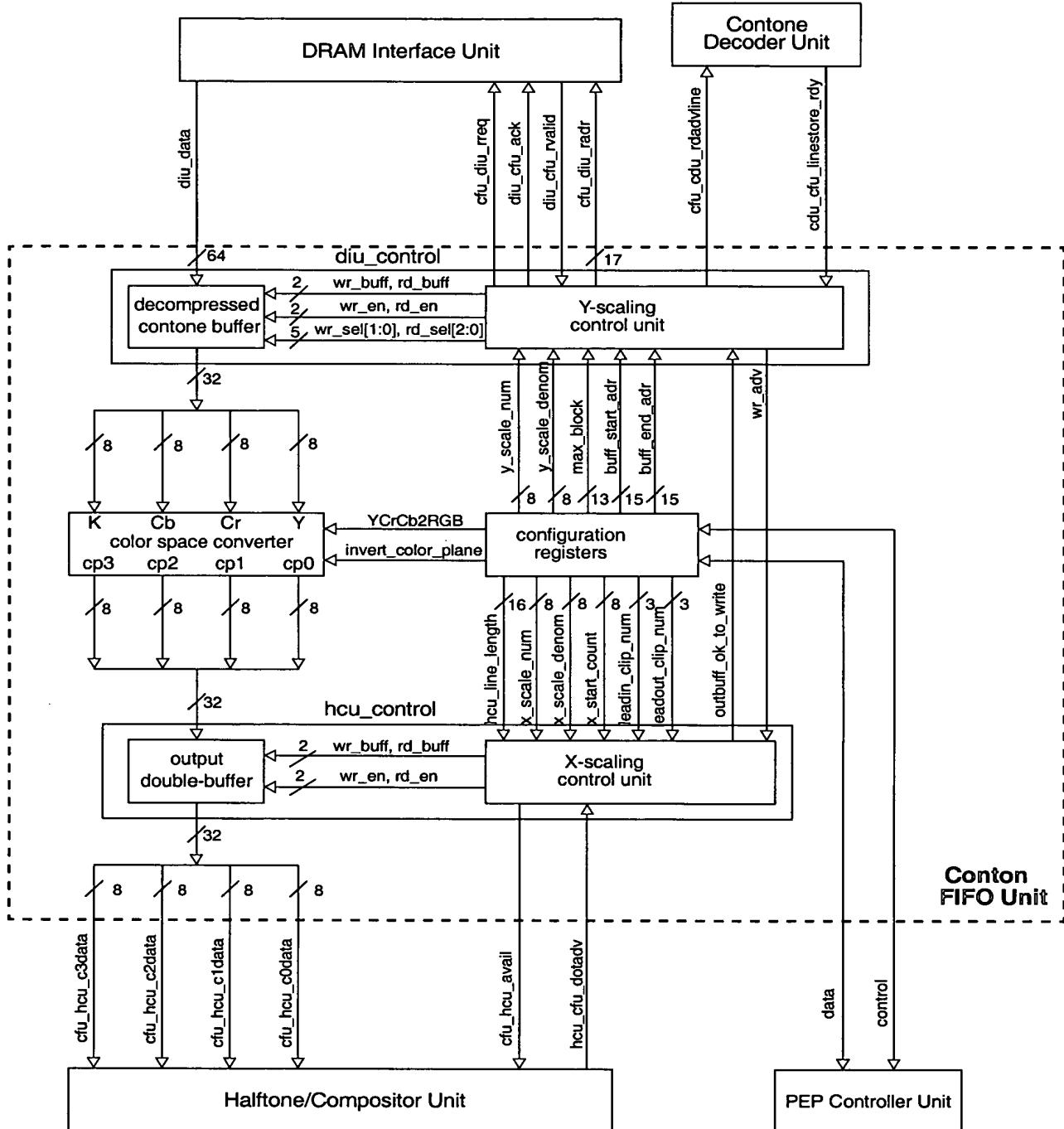


FIG. 142

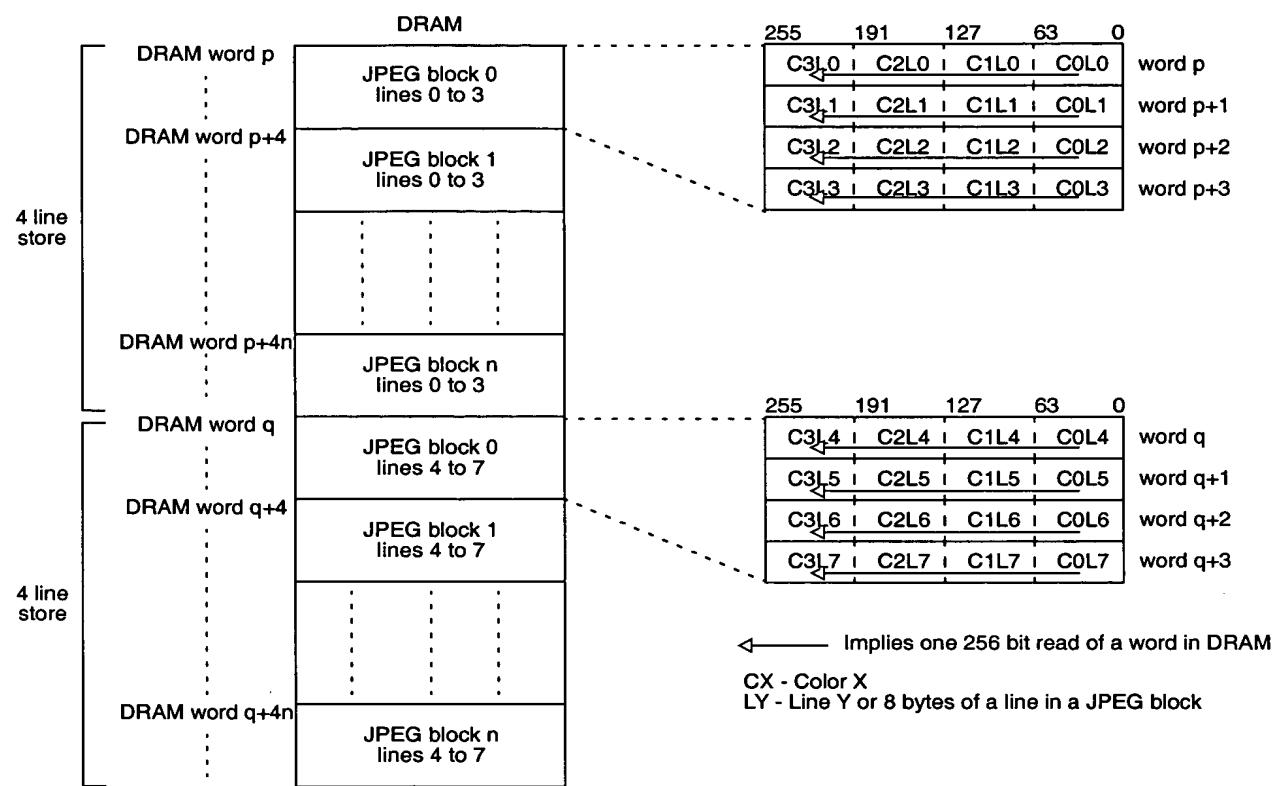


FIG. 143

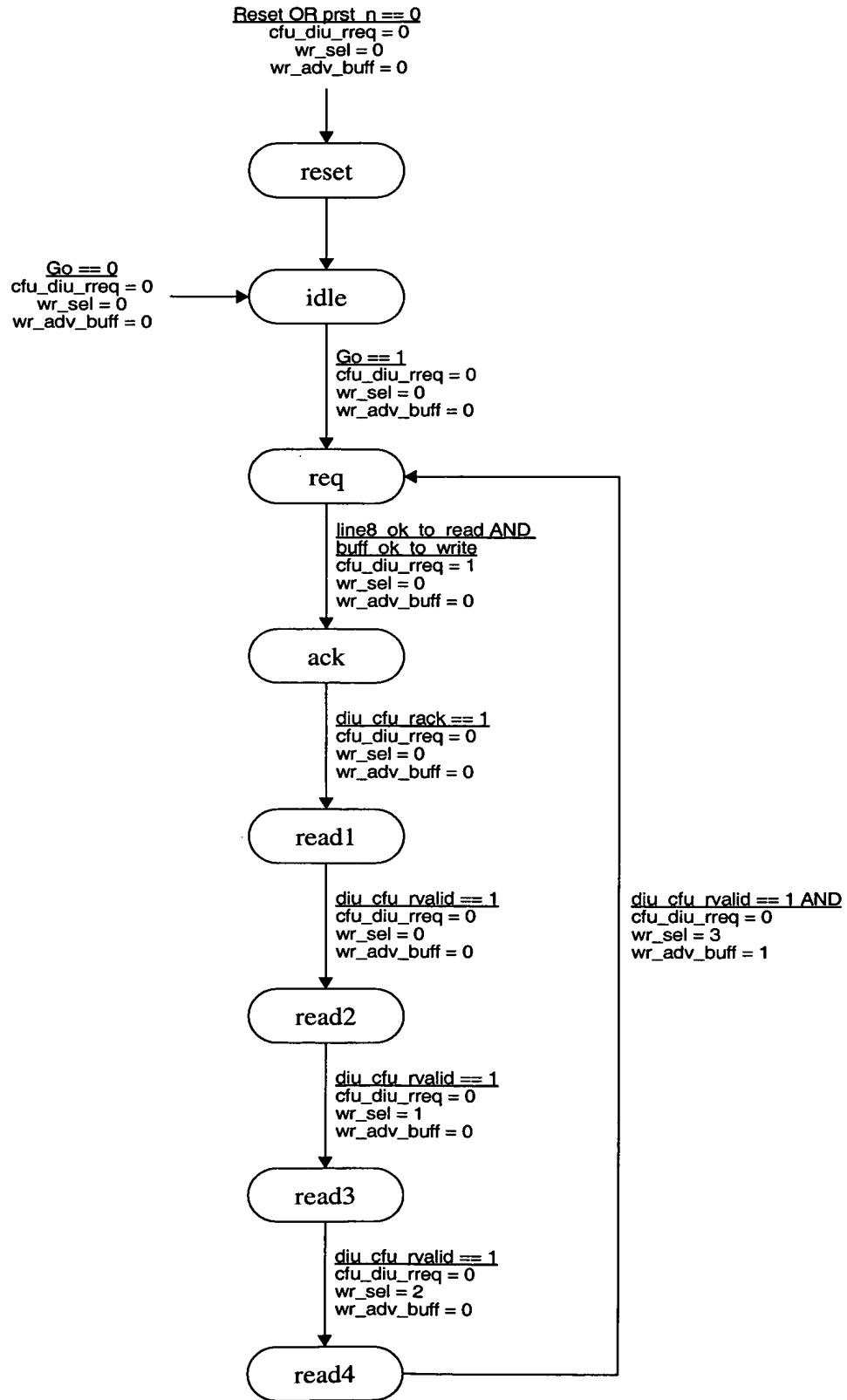


FIG. 144

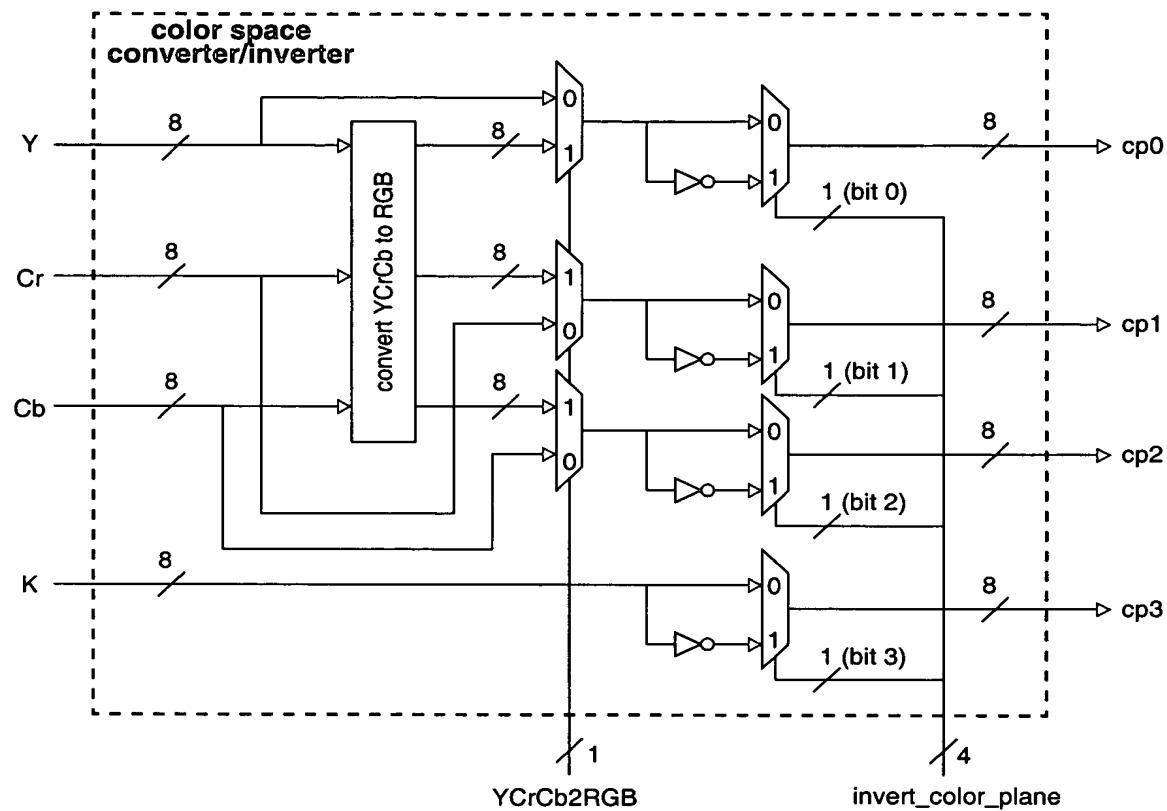


FIG. 145

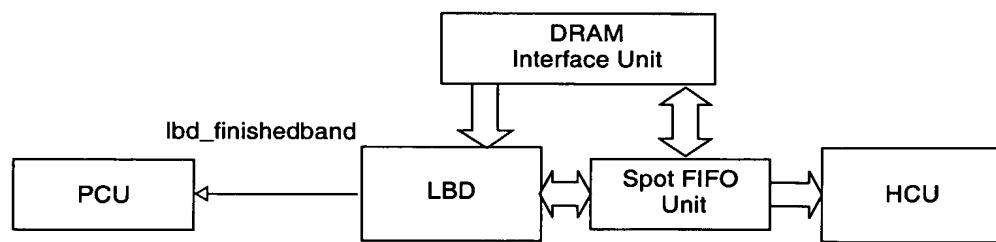


FIG. 146

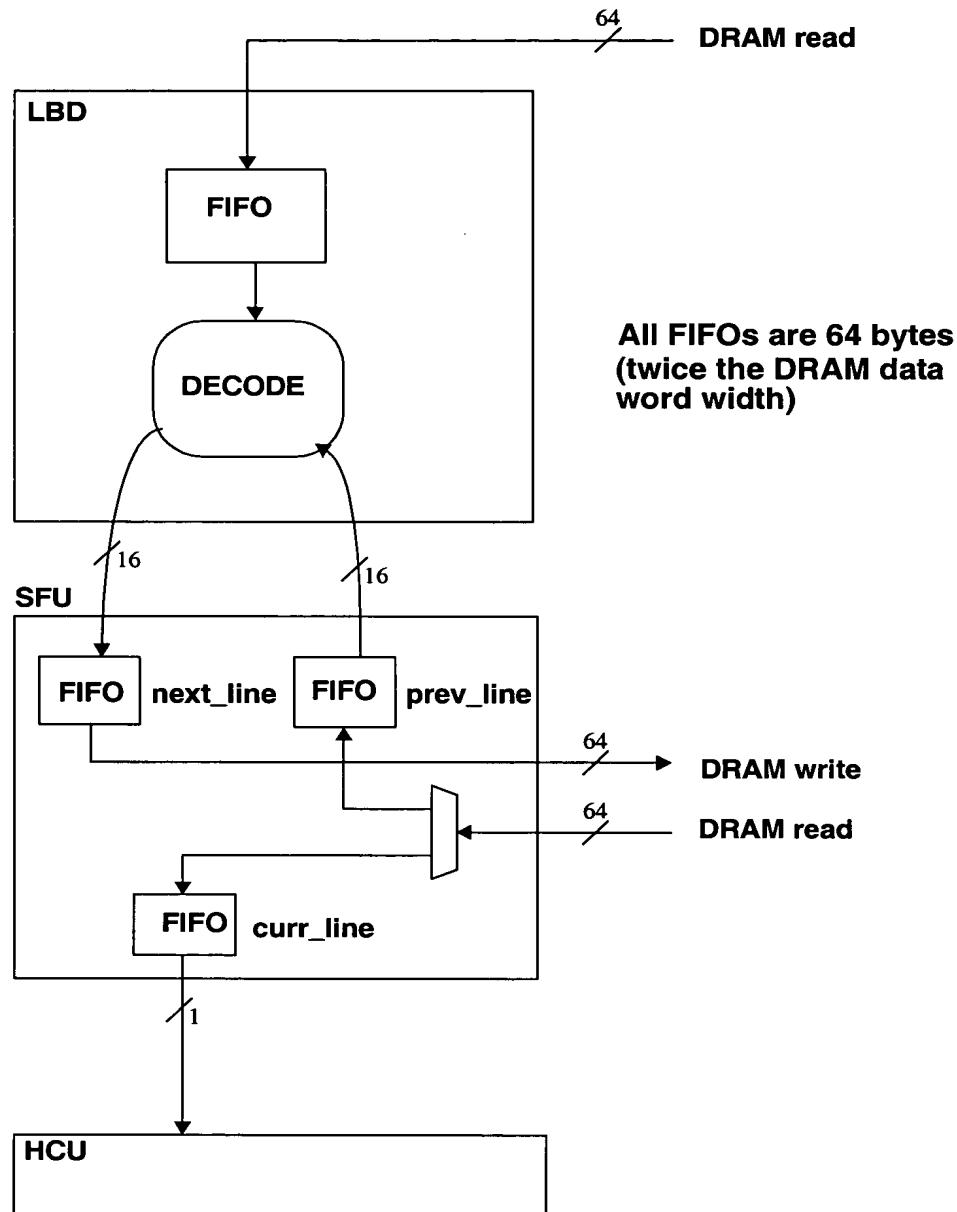


FIG. 147

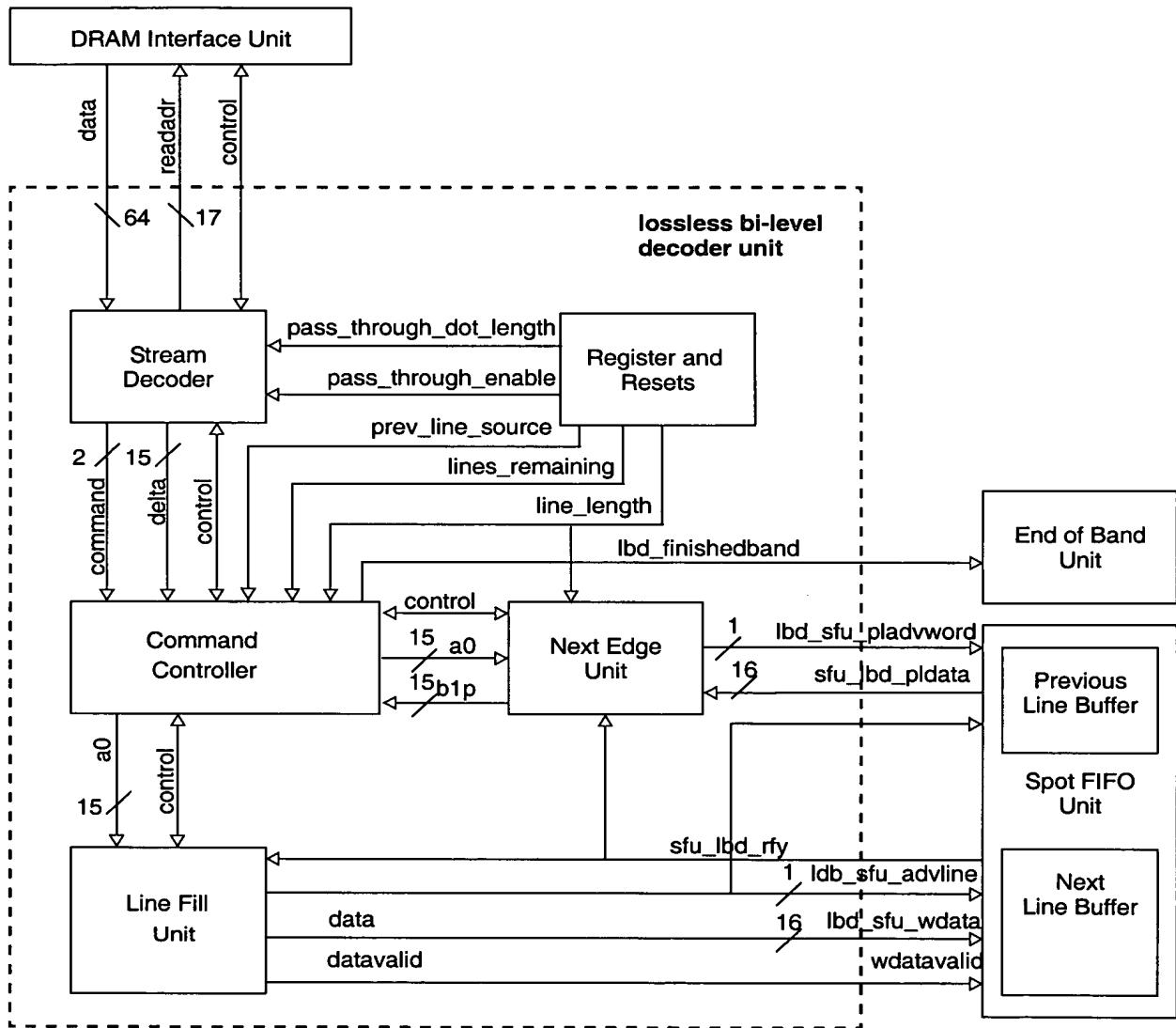


FIG. 148

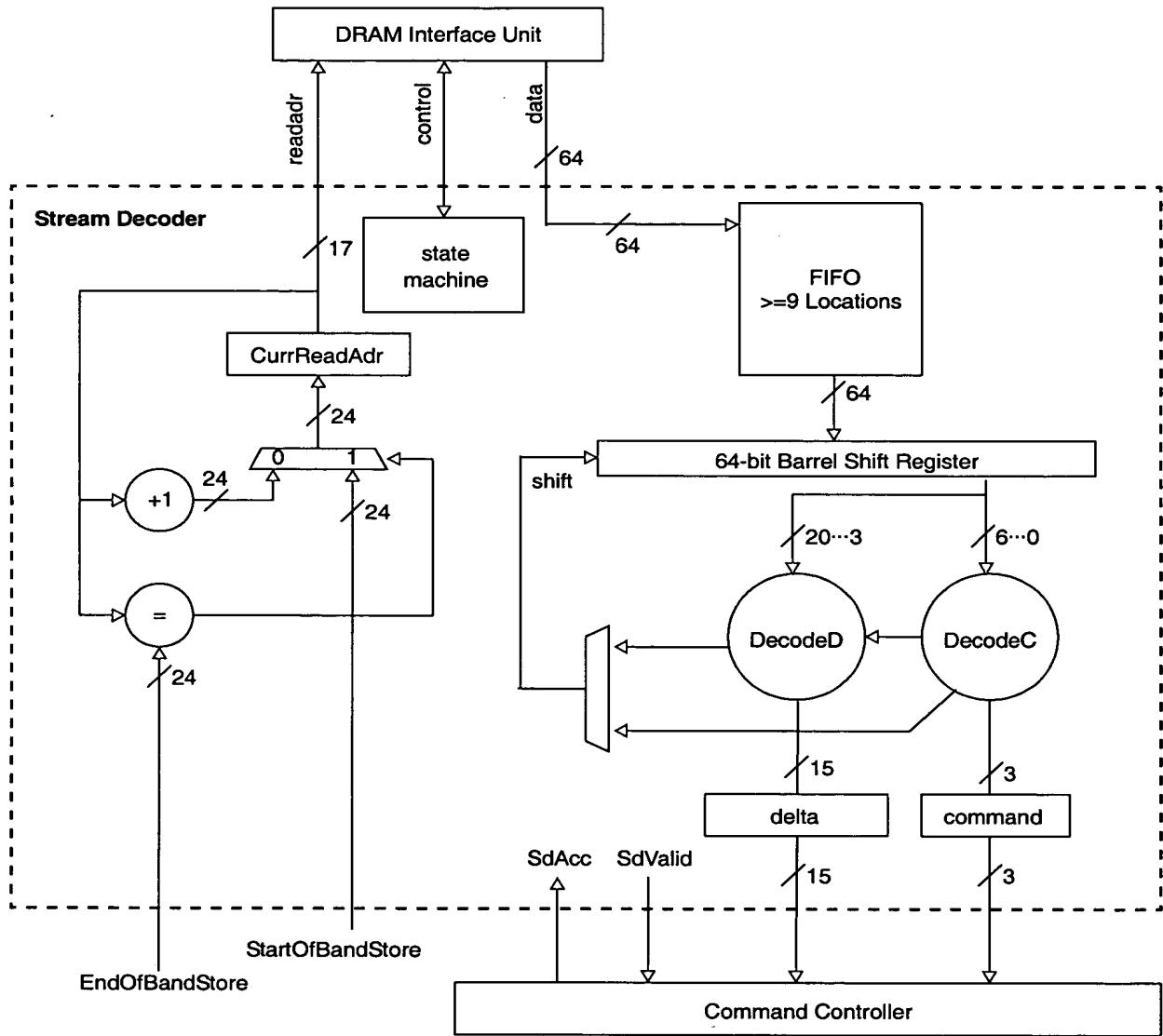


FIG. 149

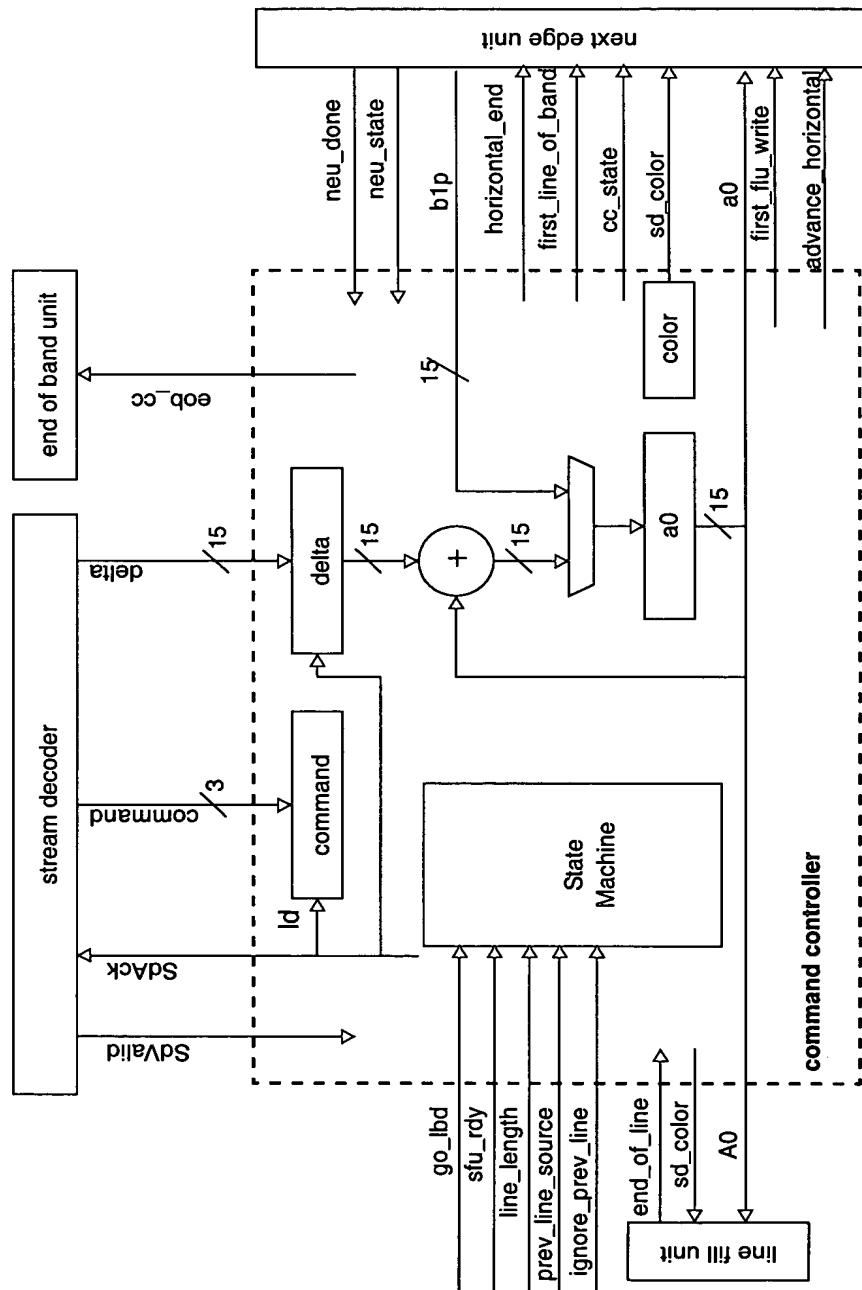


FIG. 150

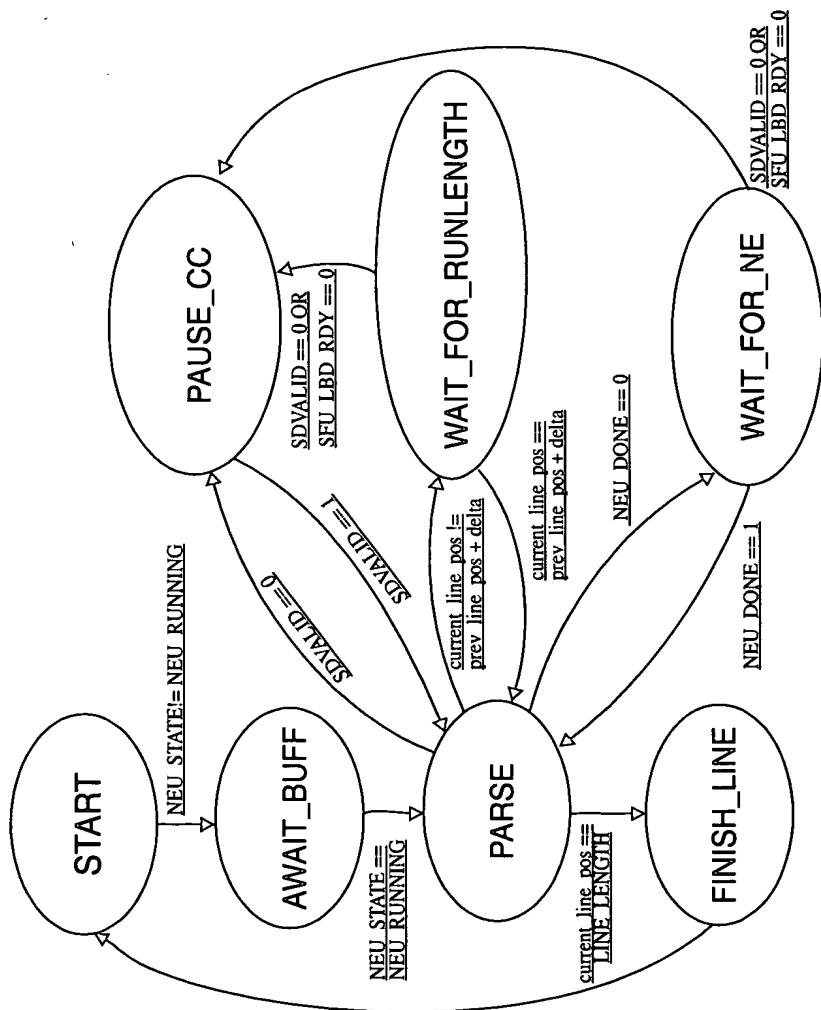


FIG. 151

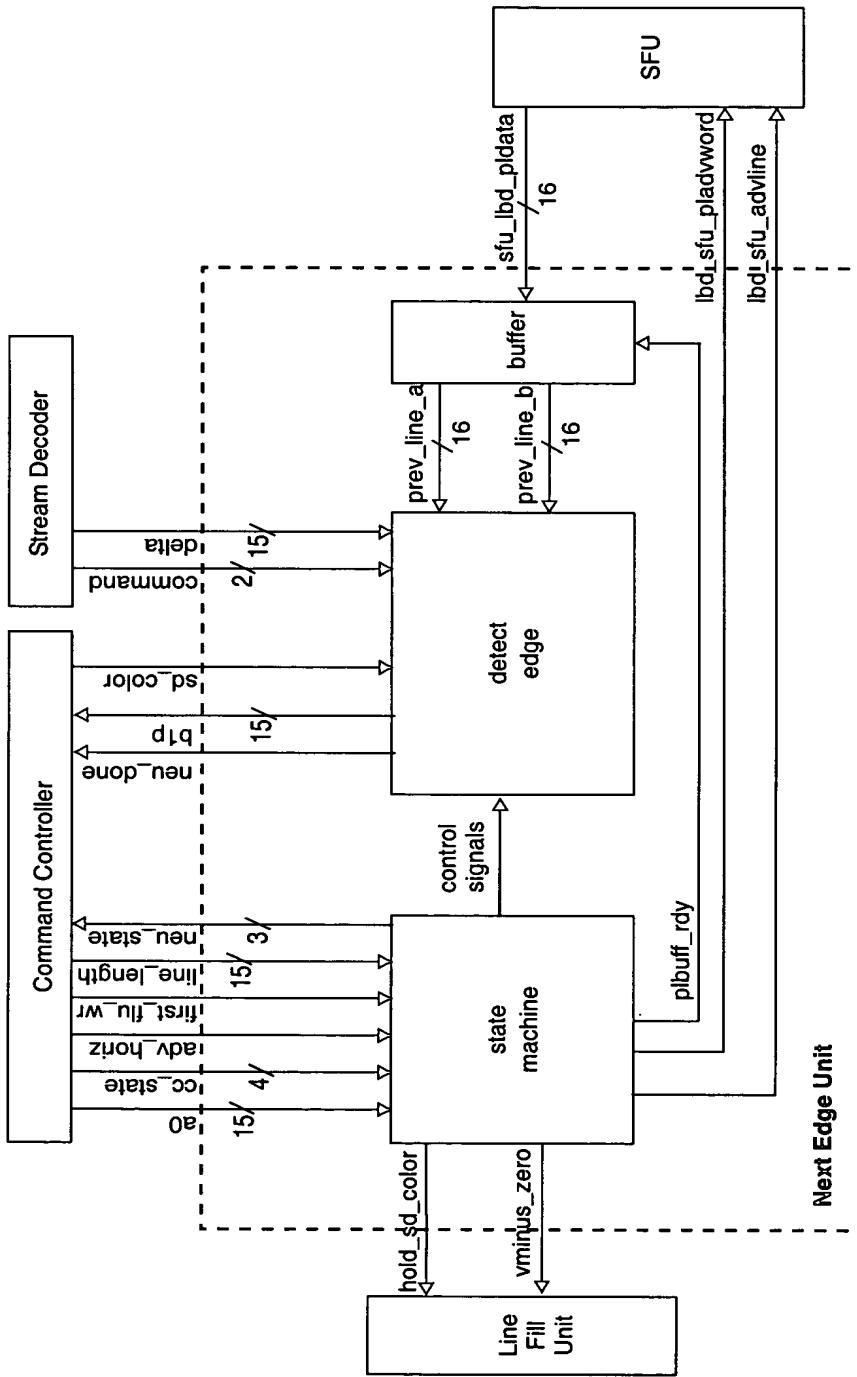


FIG. 152

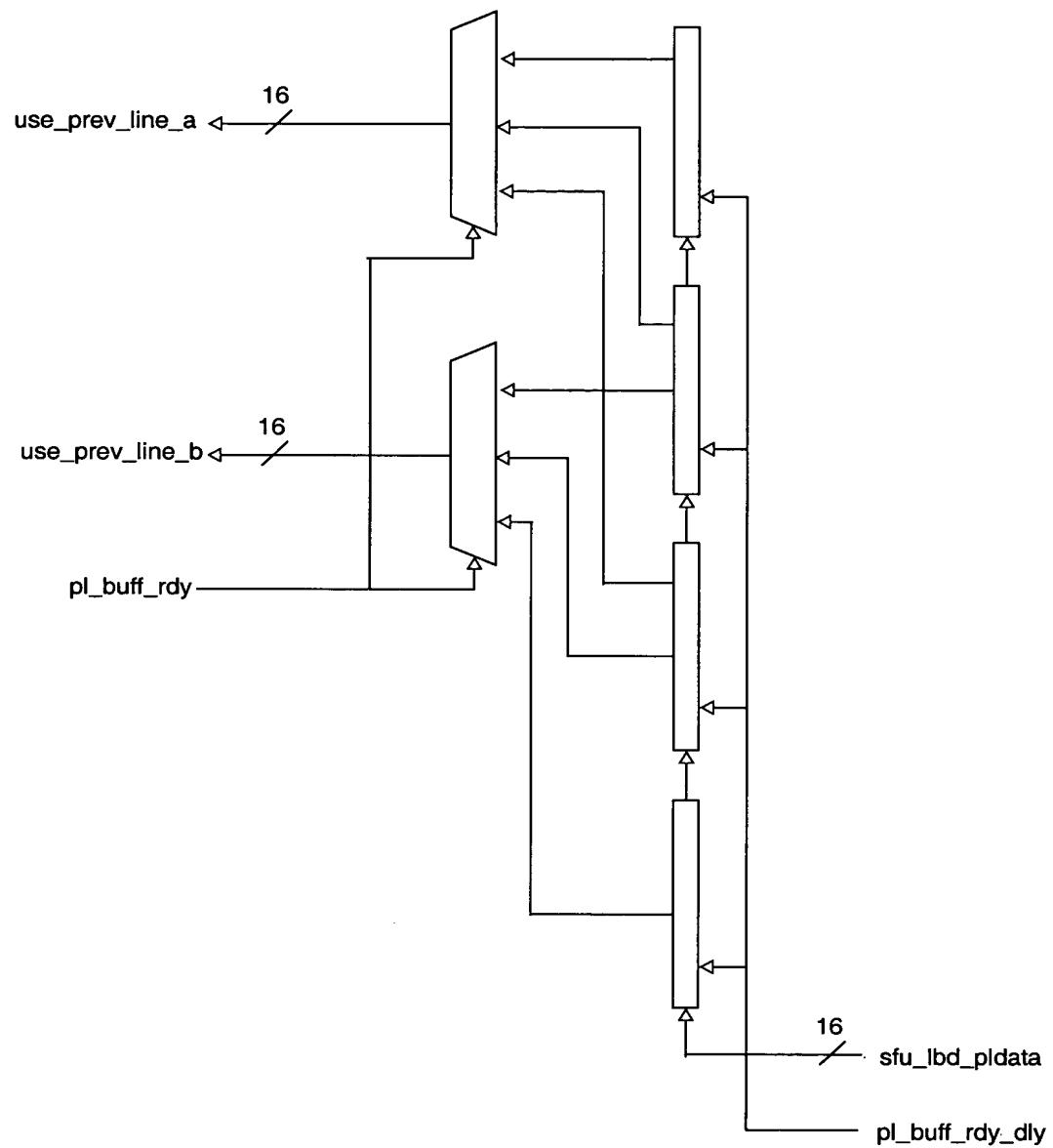


FIG. 153

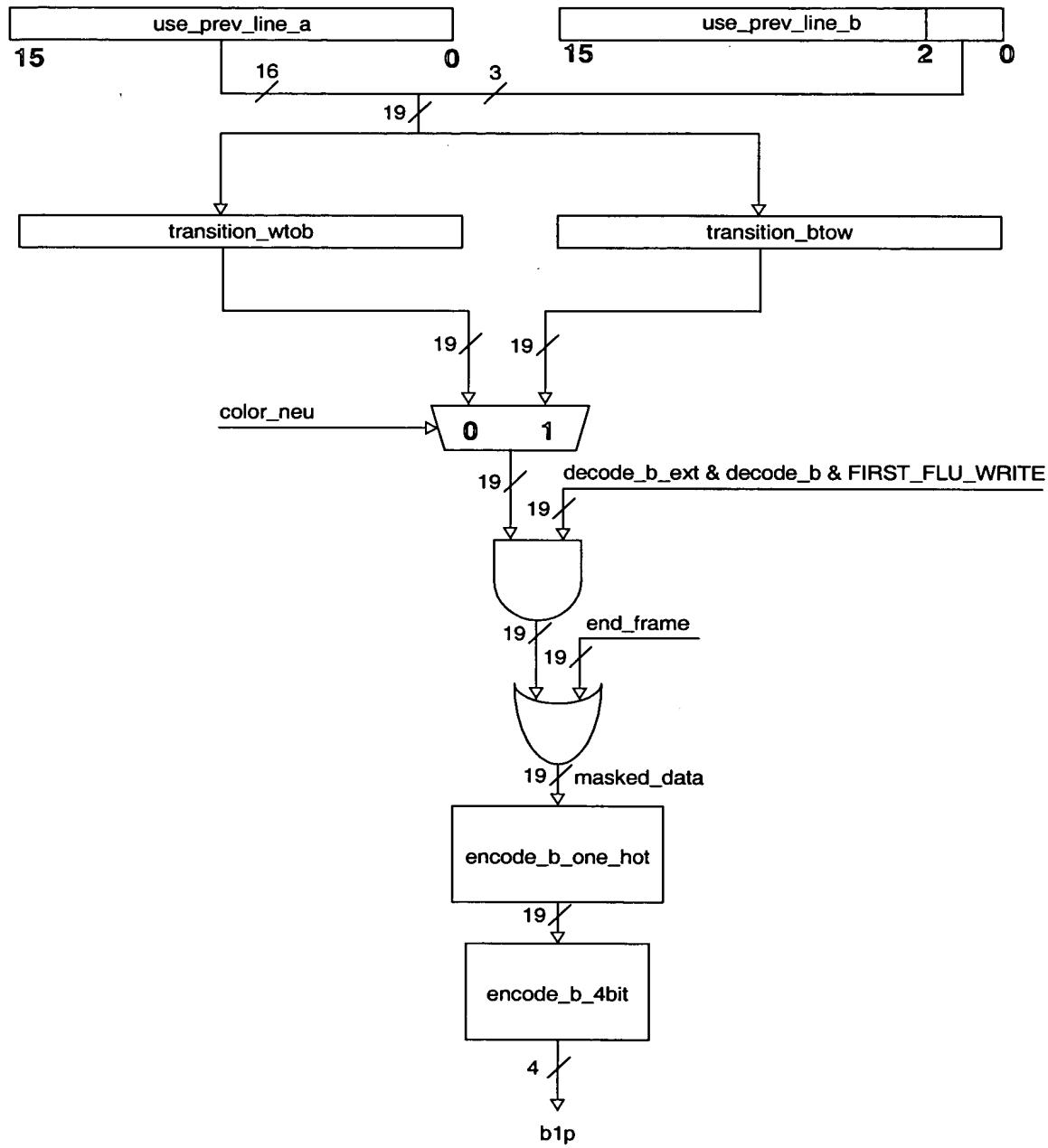


FIG. 154

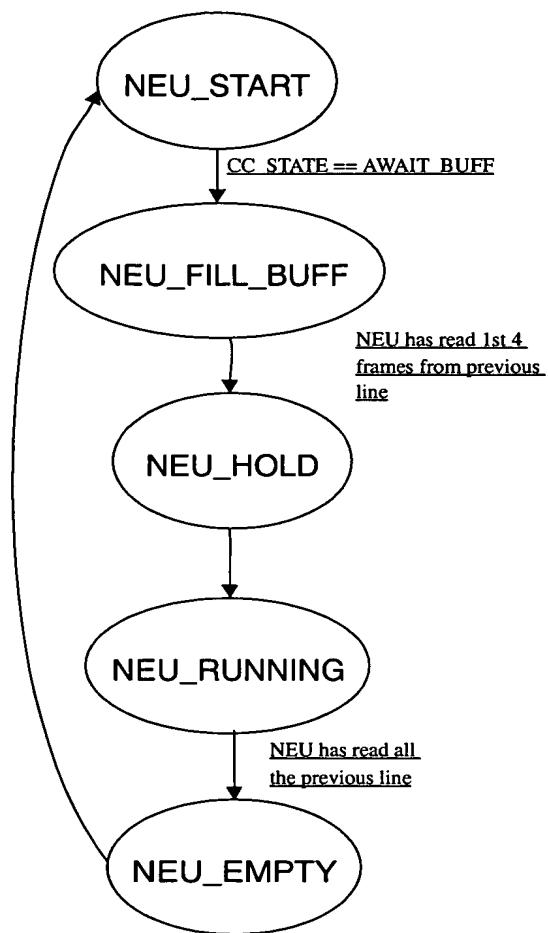


FIG. 155

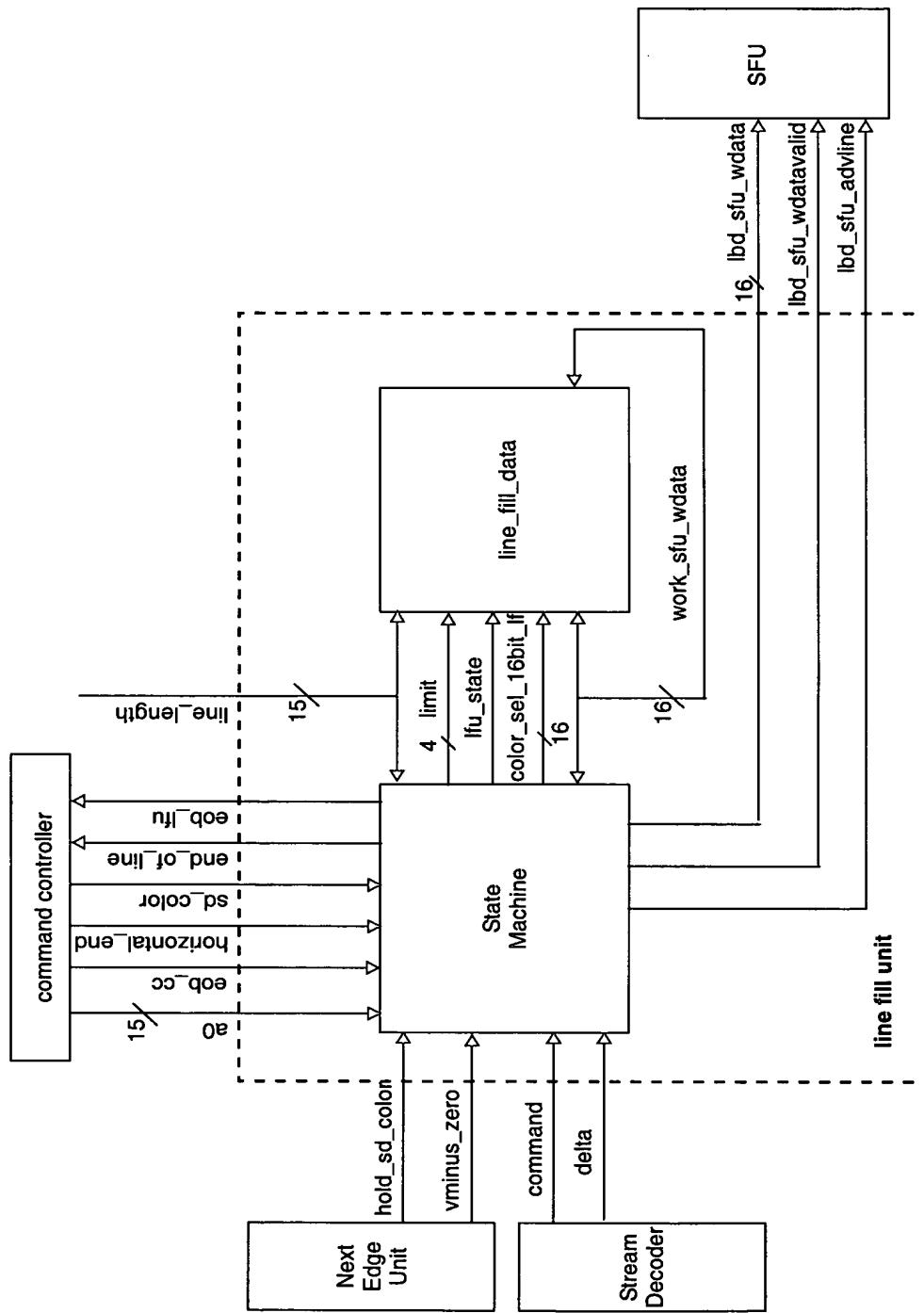


FIG. 156

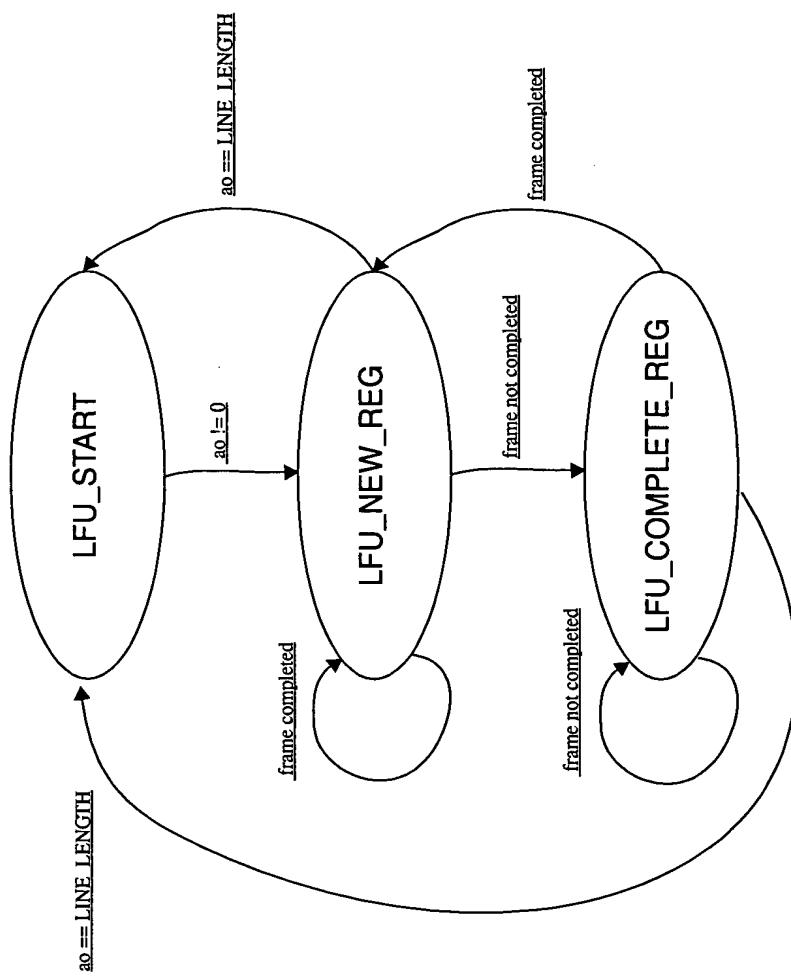


FIG. 157

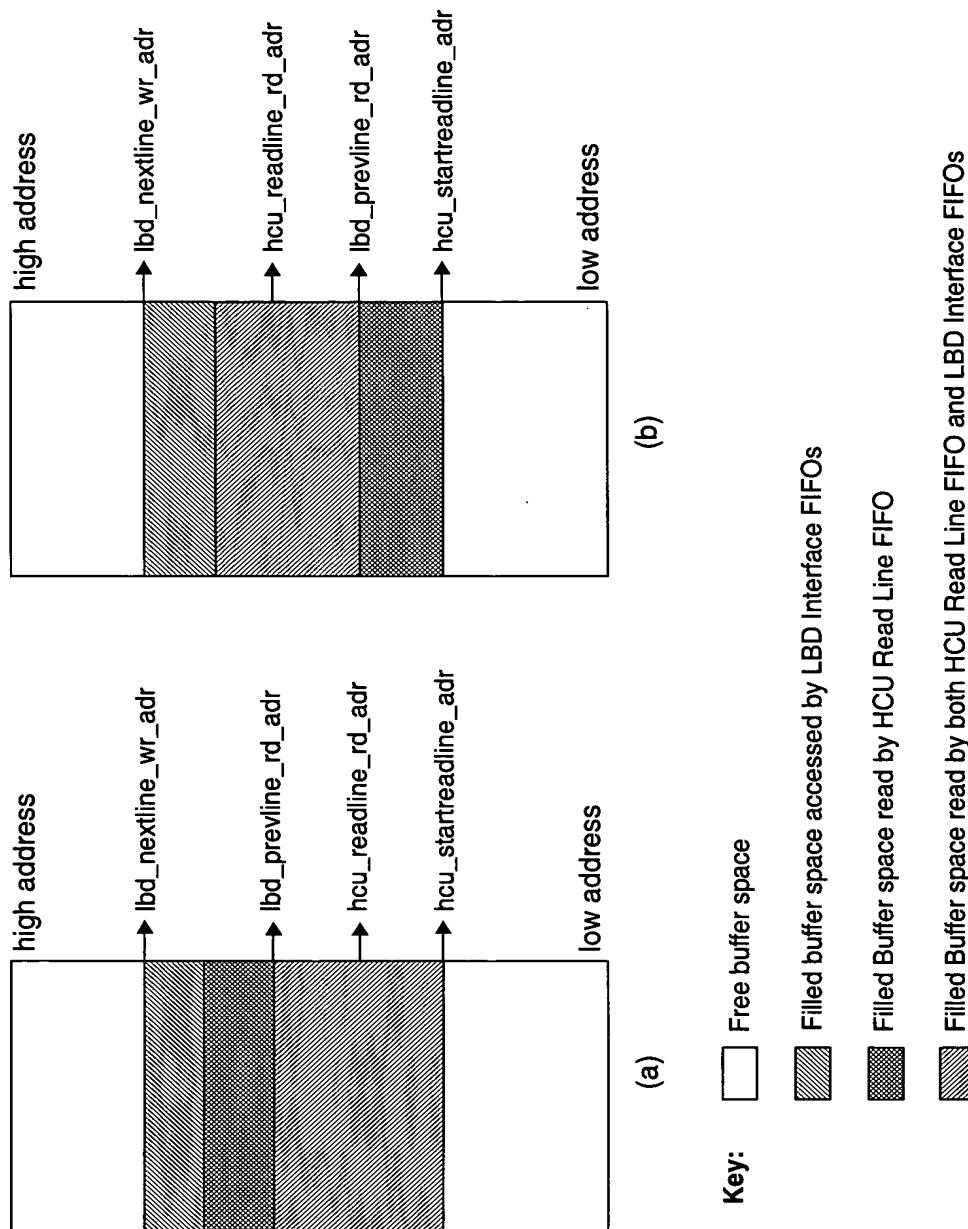


FIG. 158

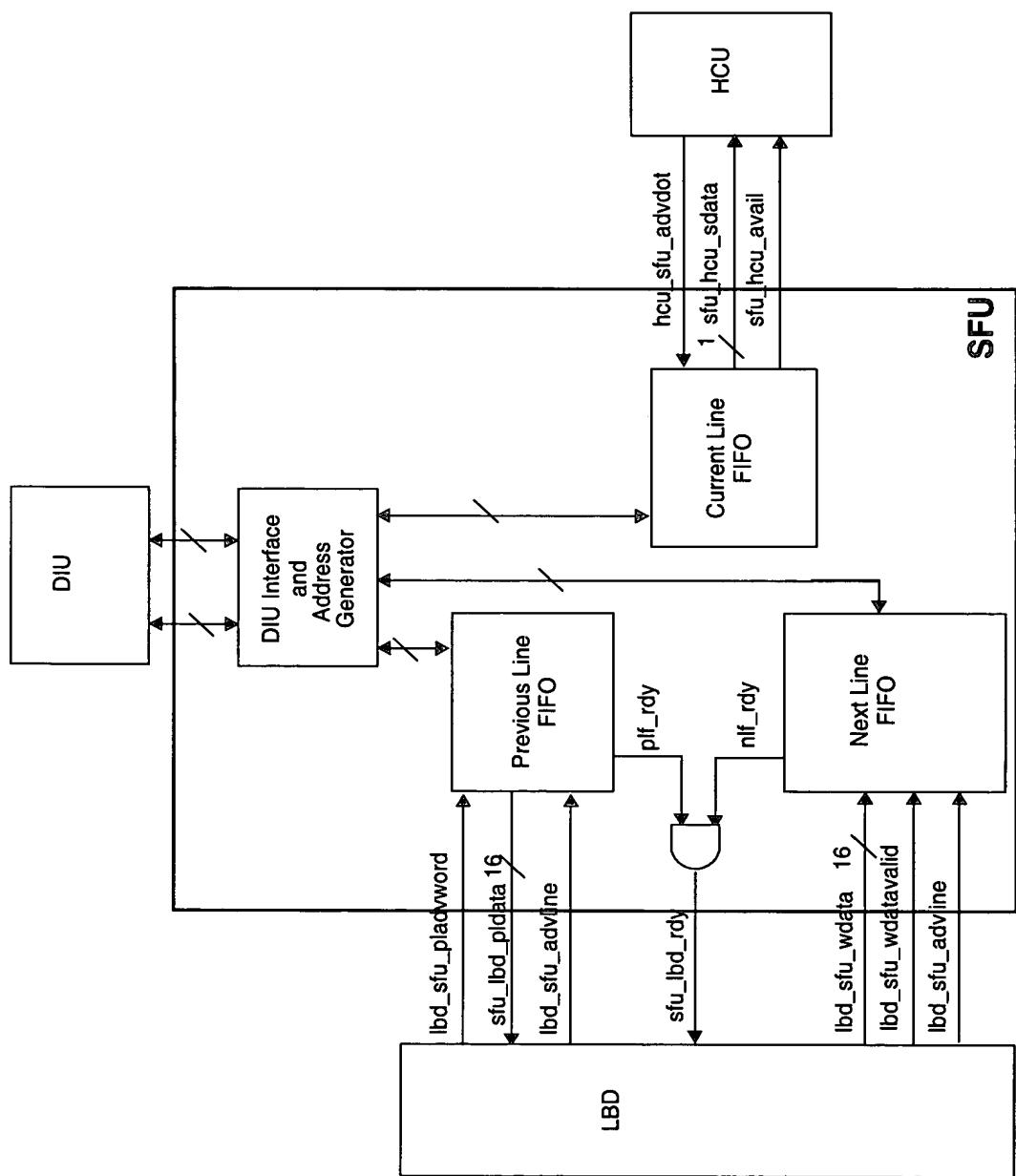


FIG. 159

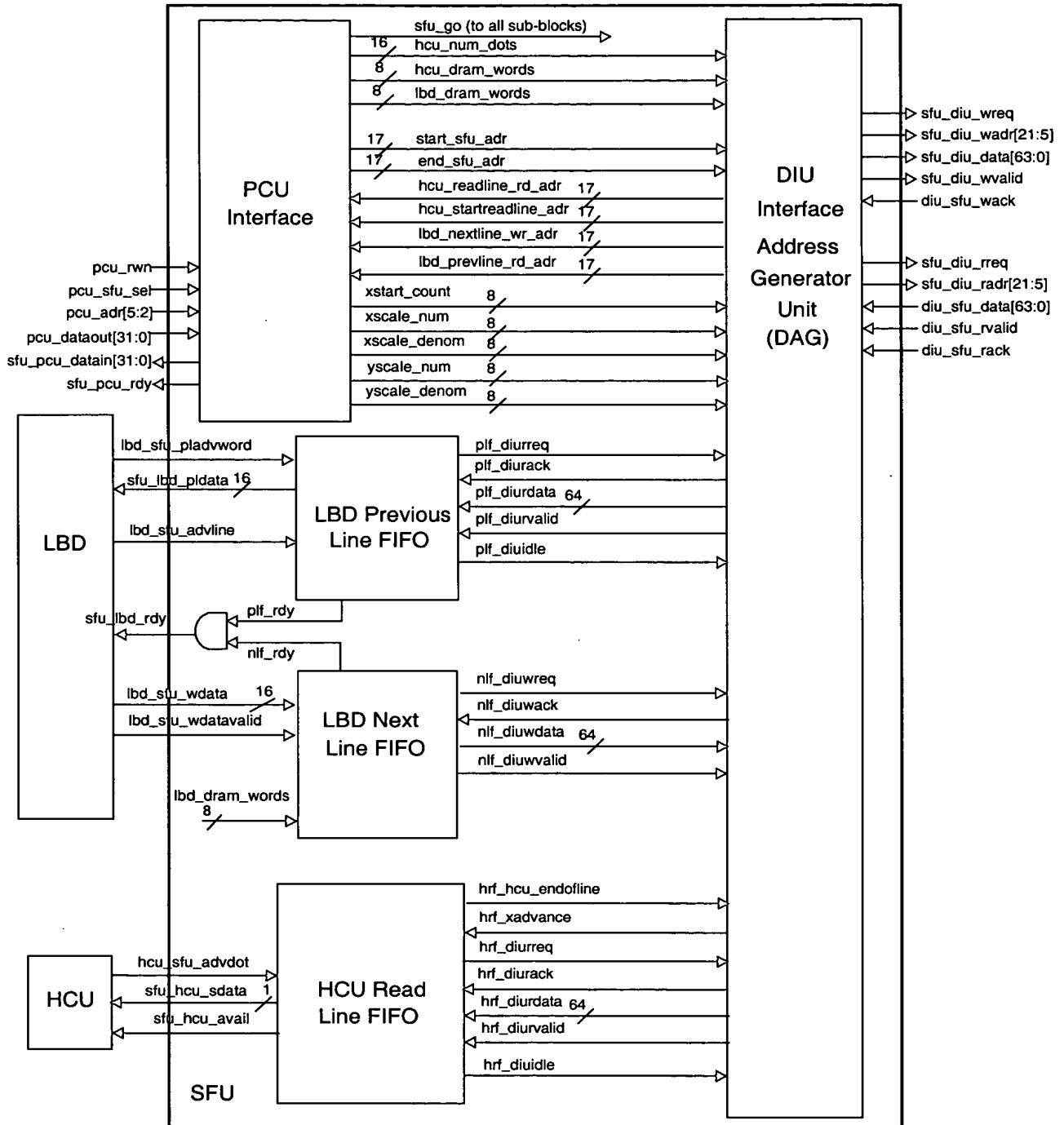


FIG. 160

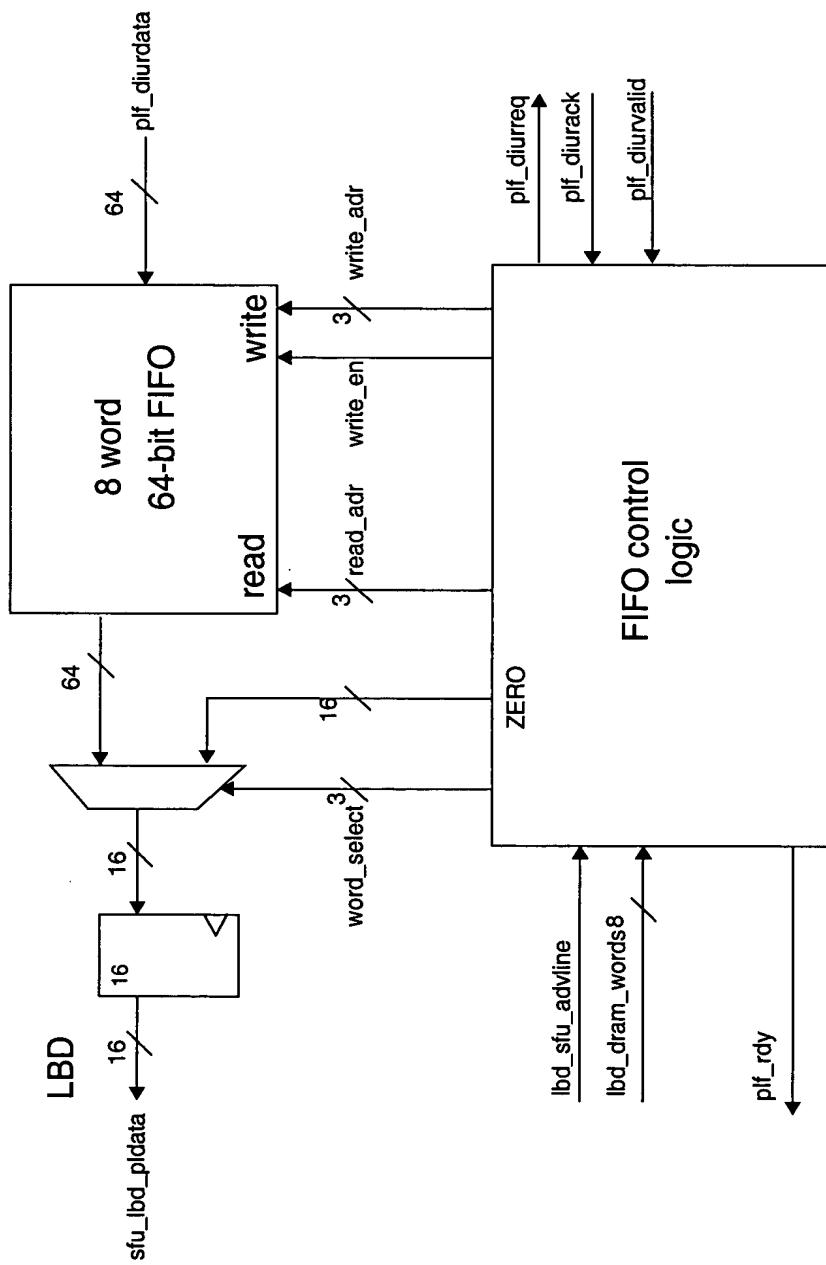


FIG. 161

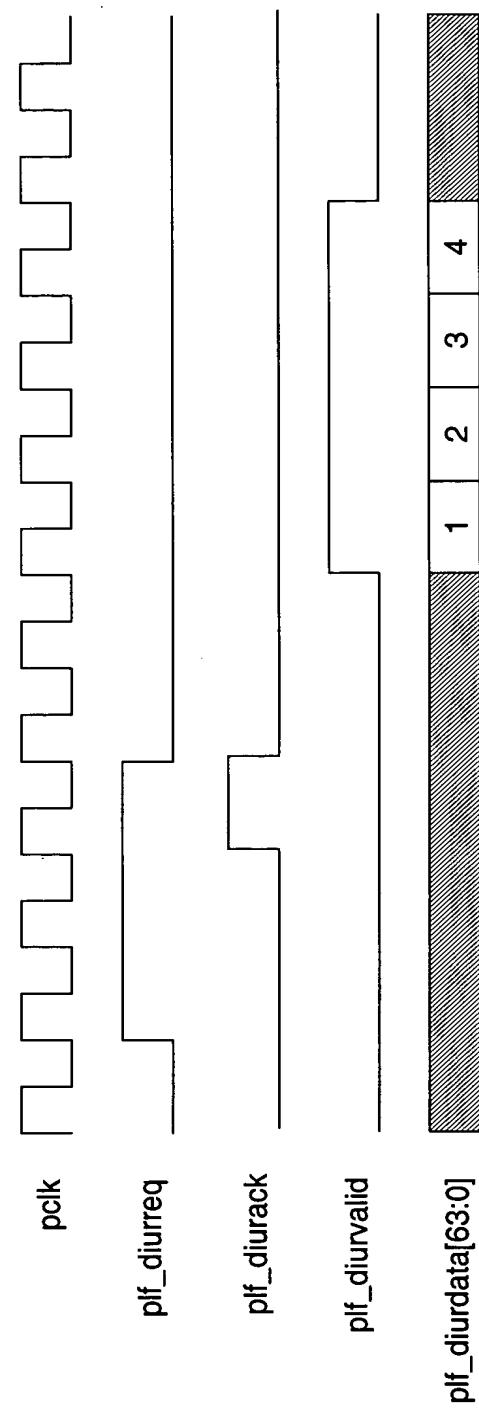


FIG. 162

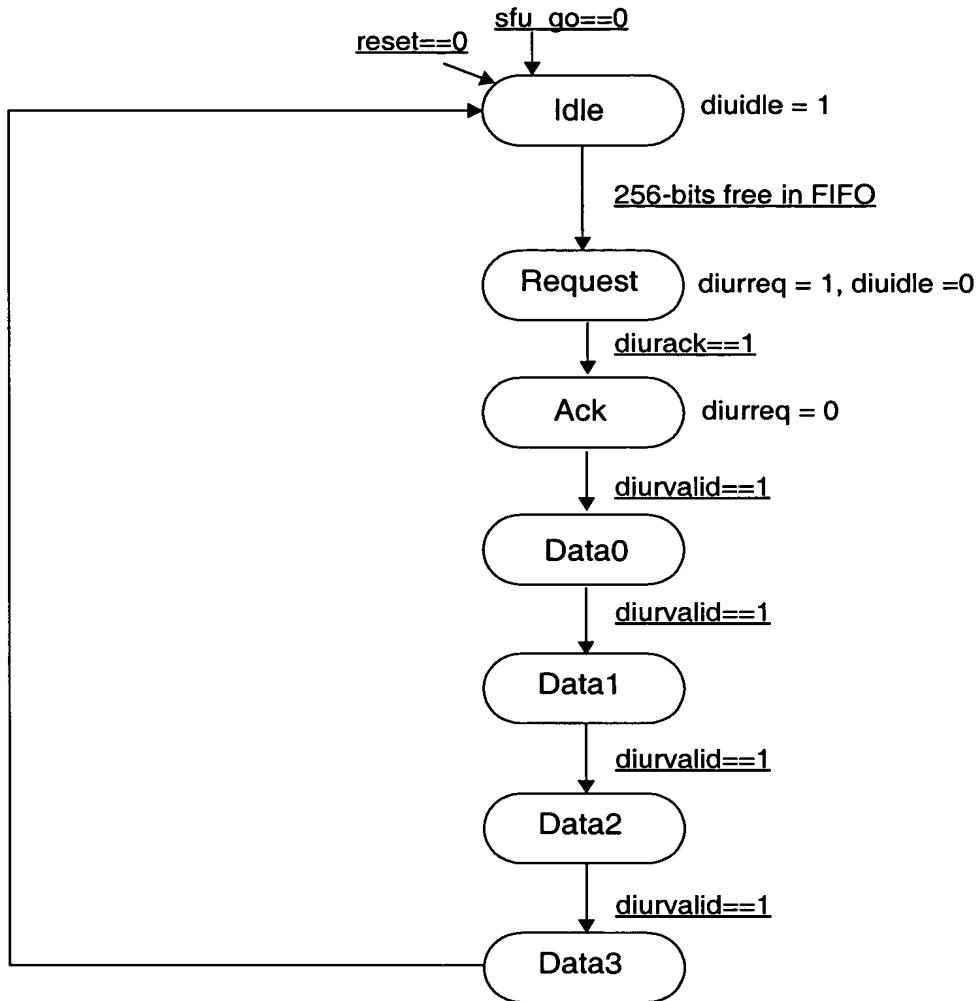


FIG. 163

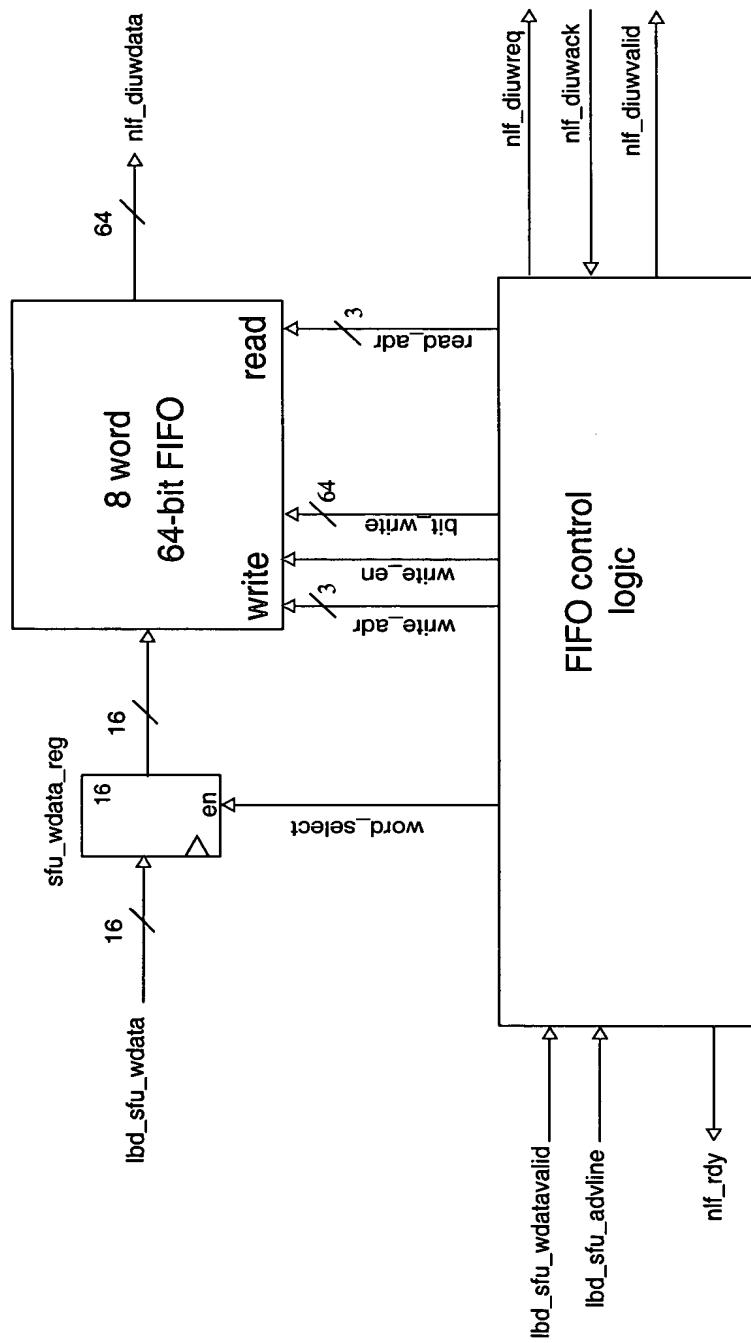


FIG. 164

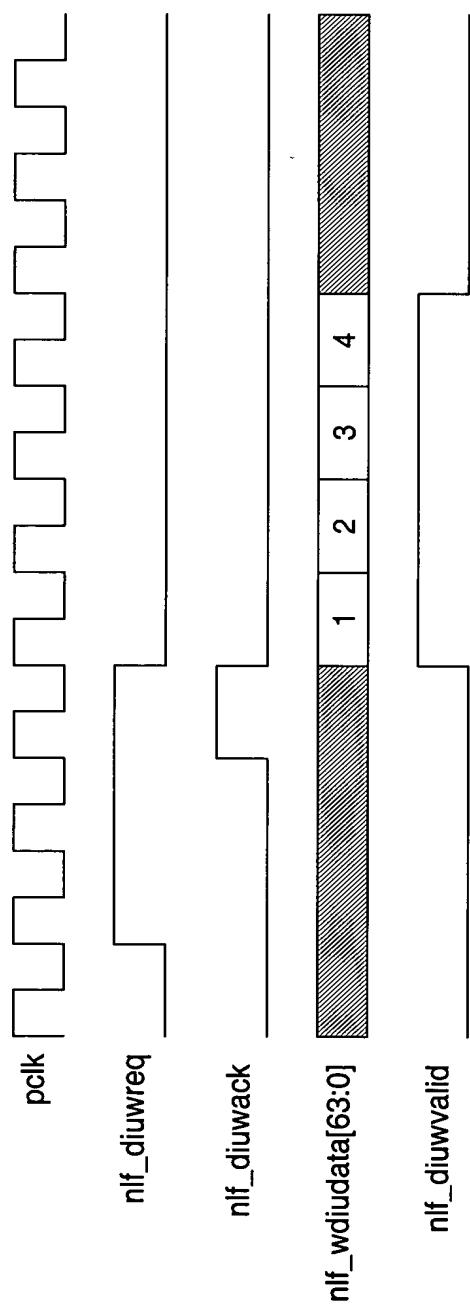


FIG. 165

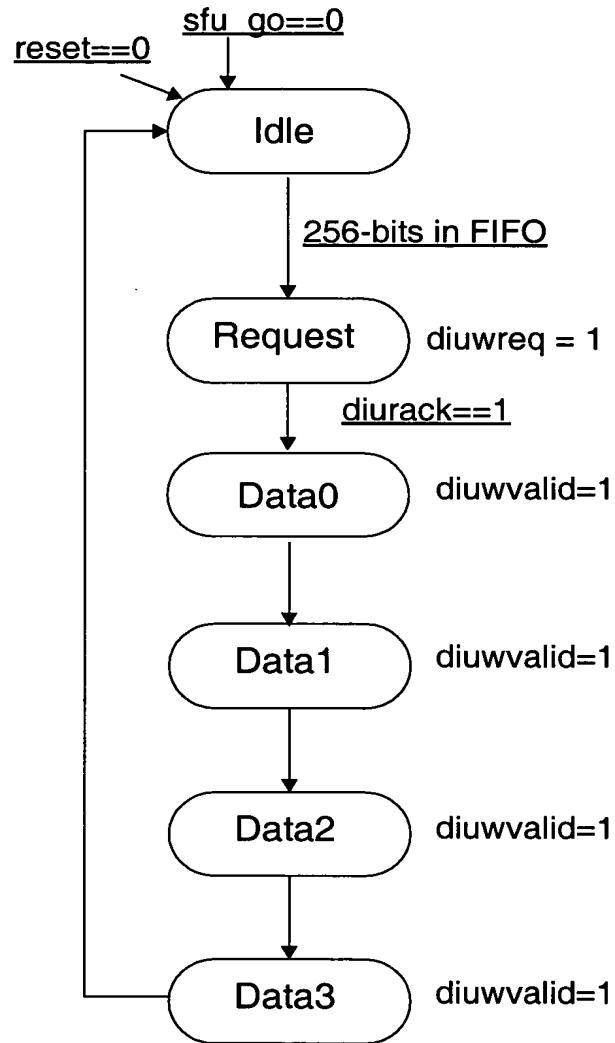


FIG. 166

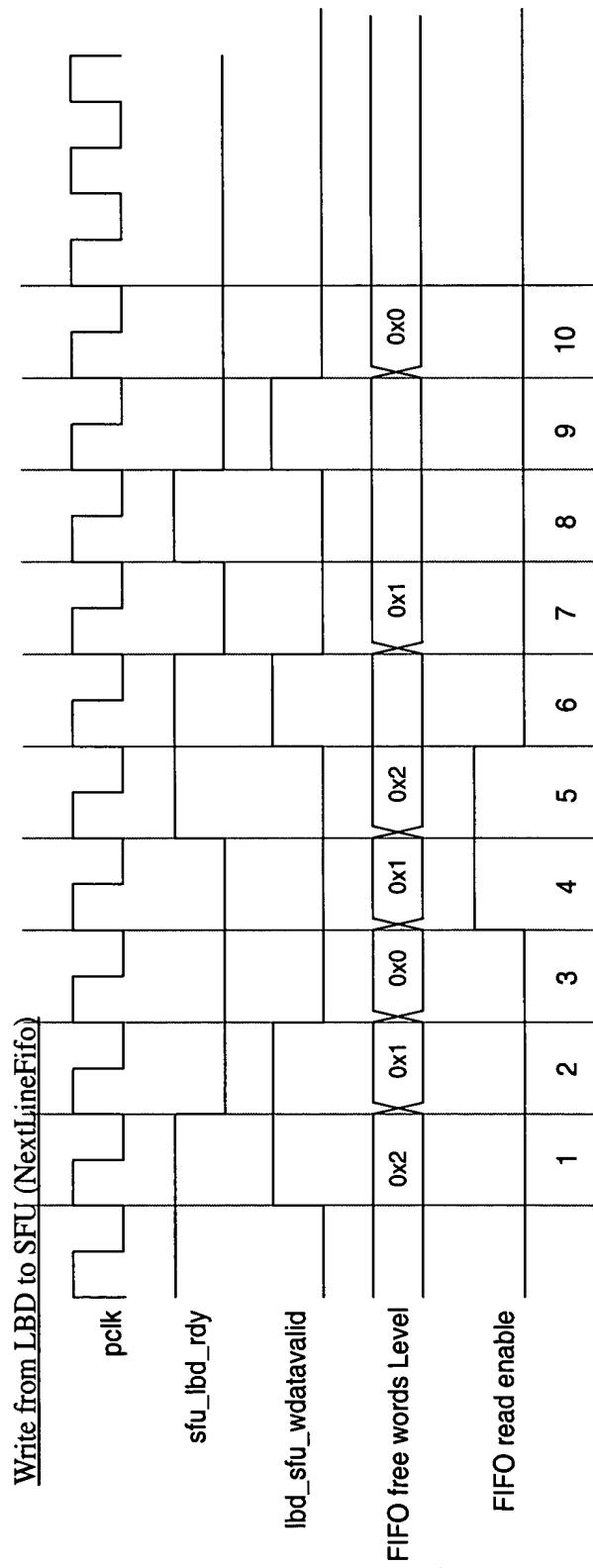


FIG. 167

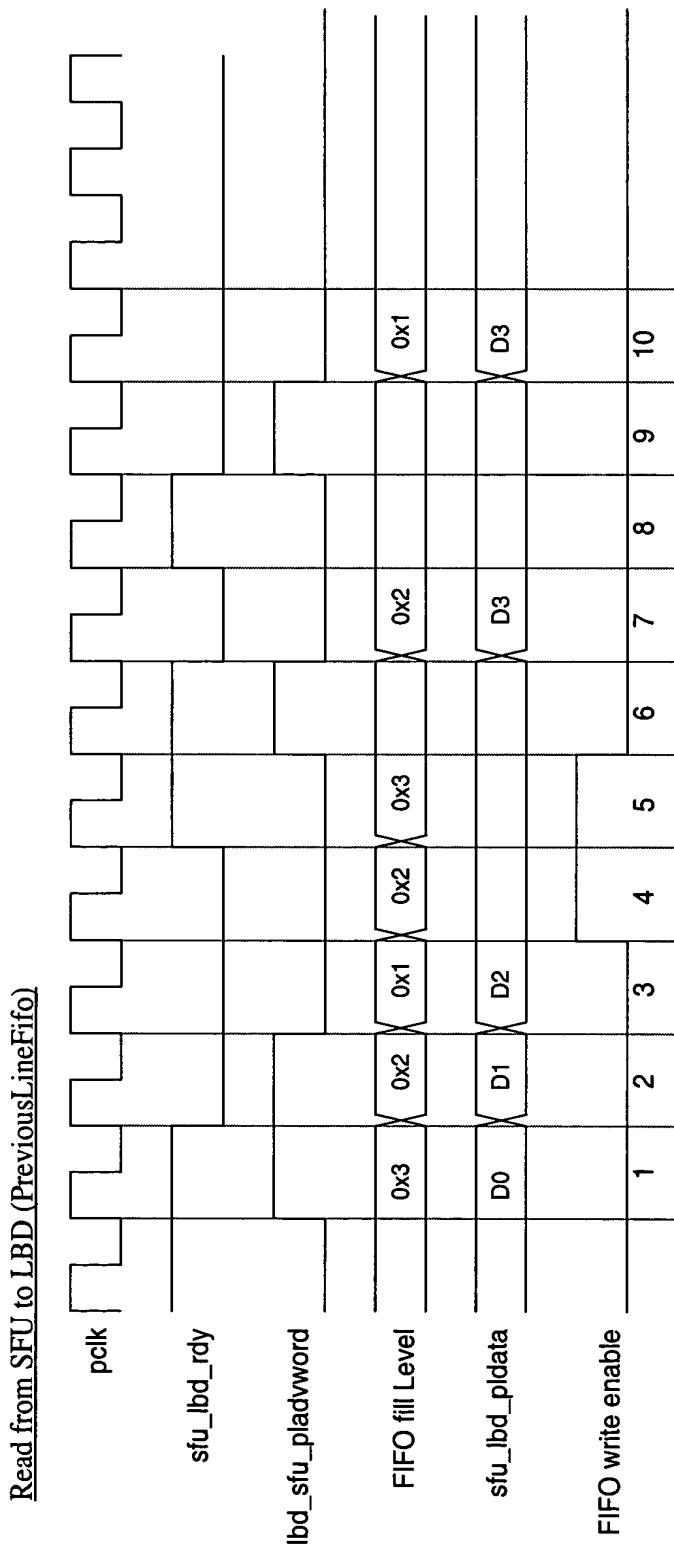


FIG. 168

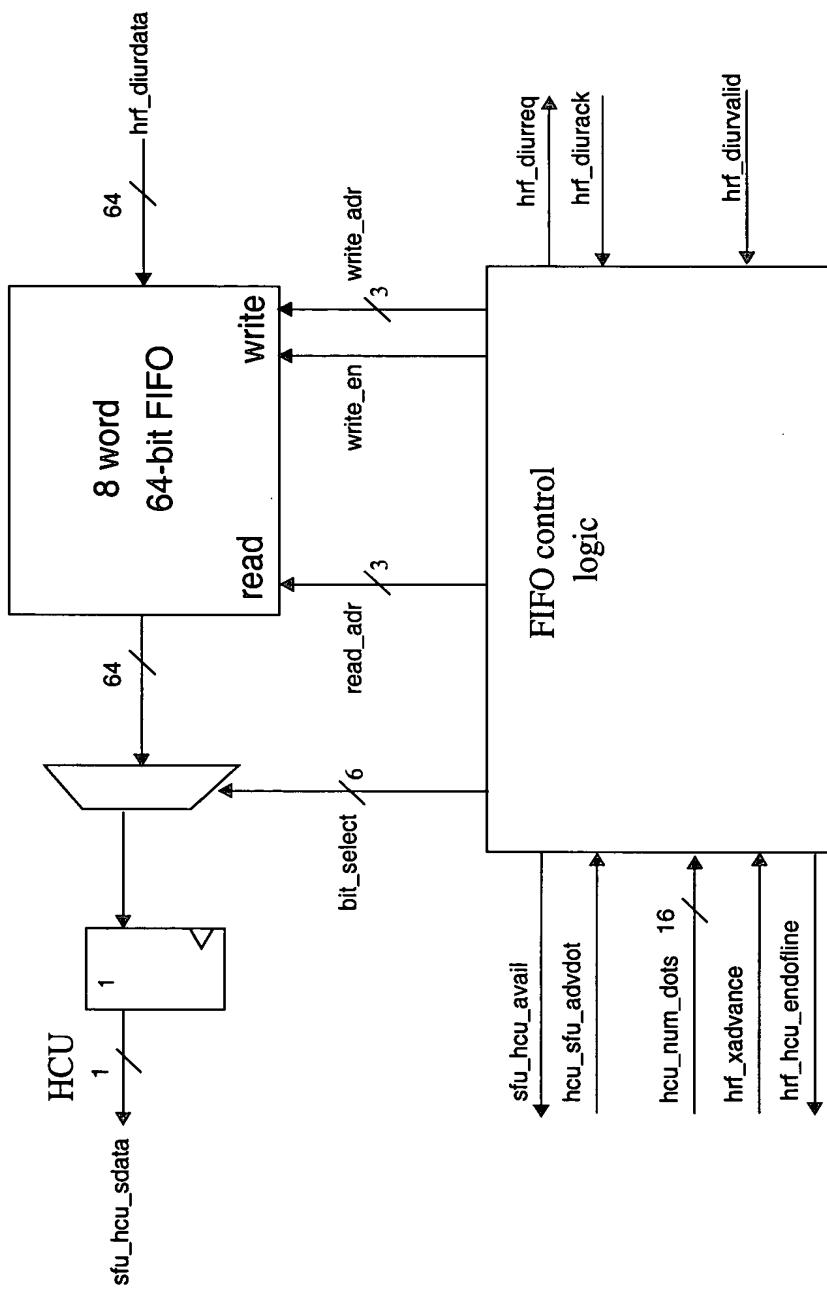


FIG. 169

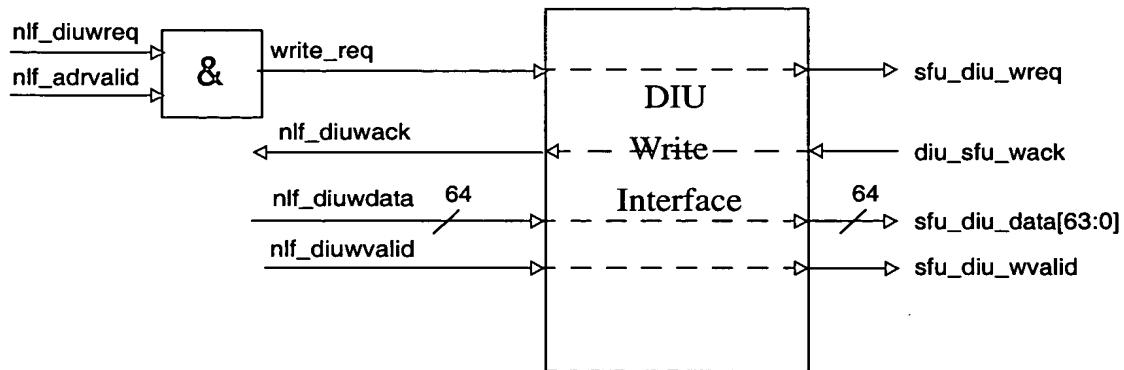


FIG. 170

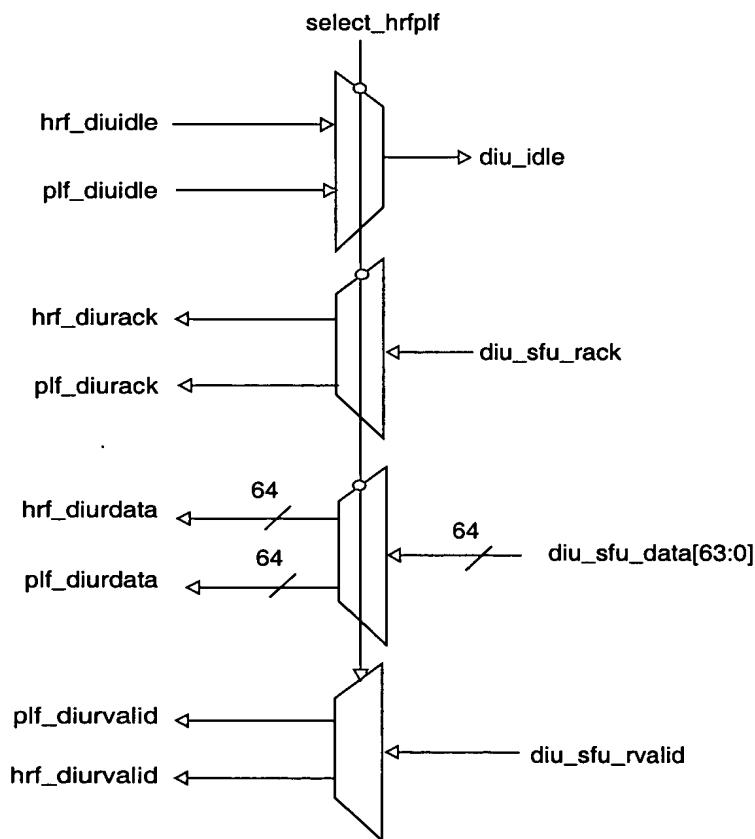


FIG. 171

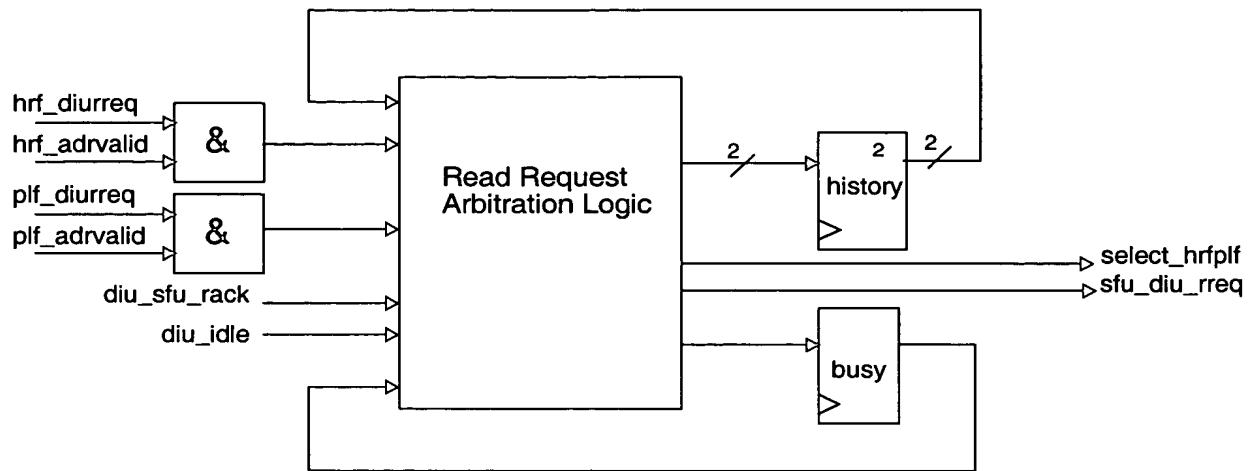


FIG. 172

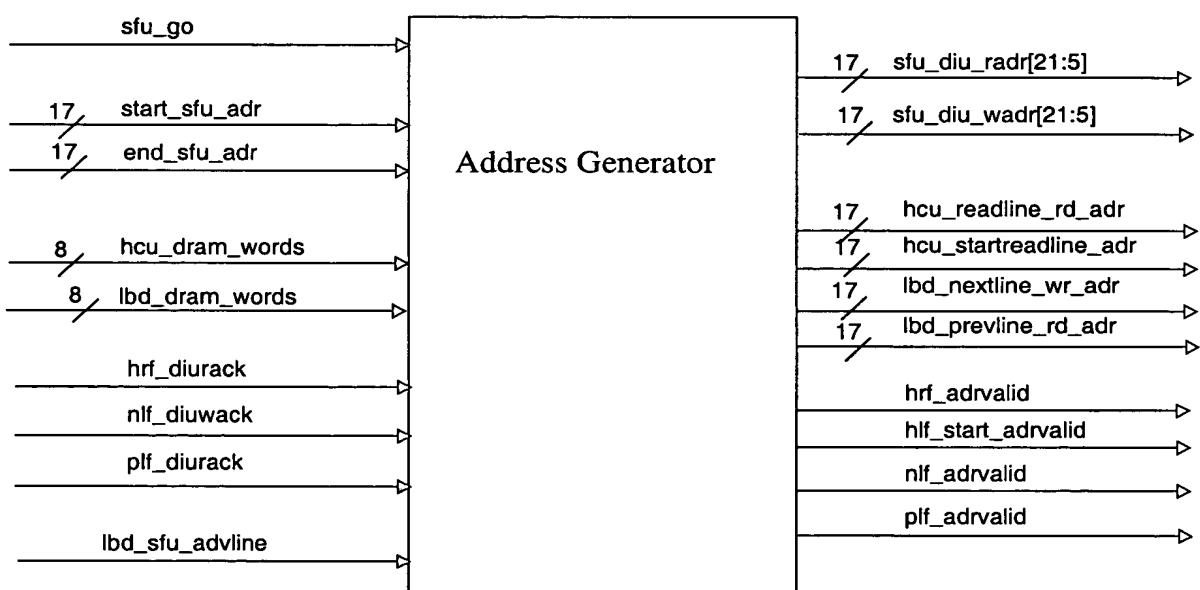


FIG. 173

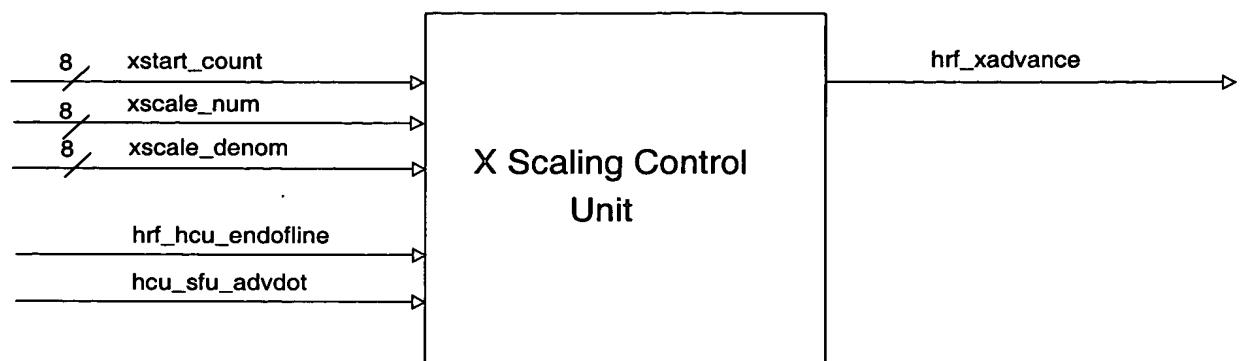


FIG. 174

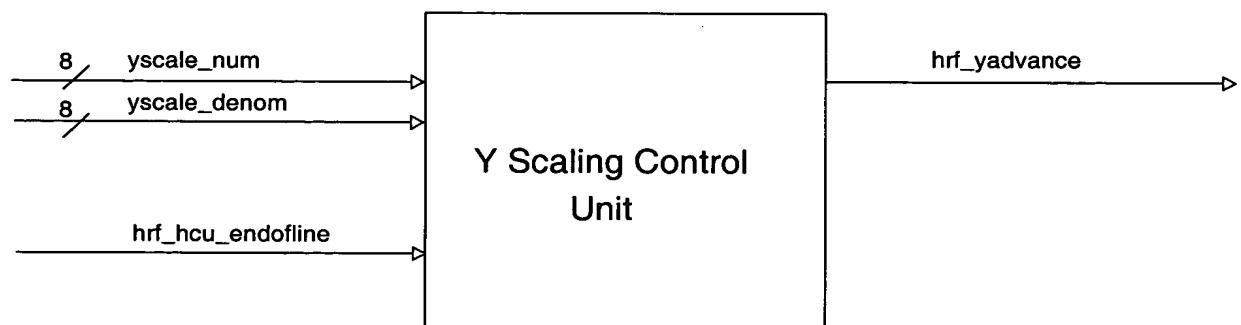


FIG. 175

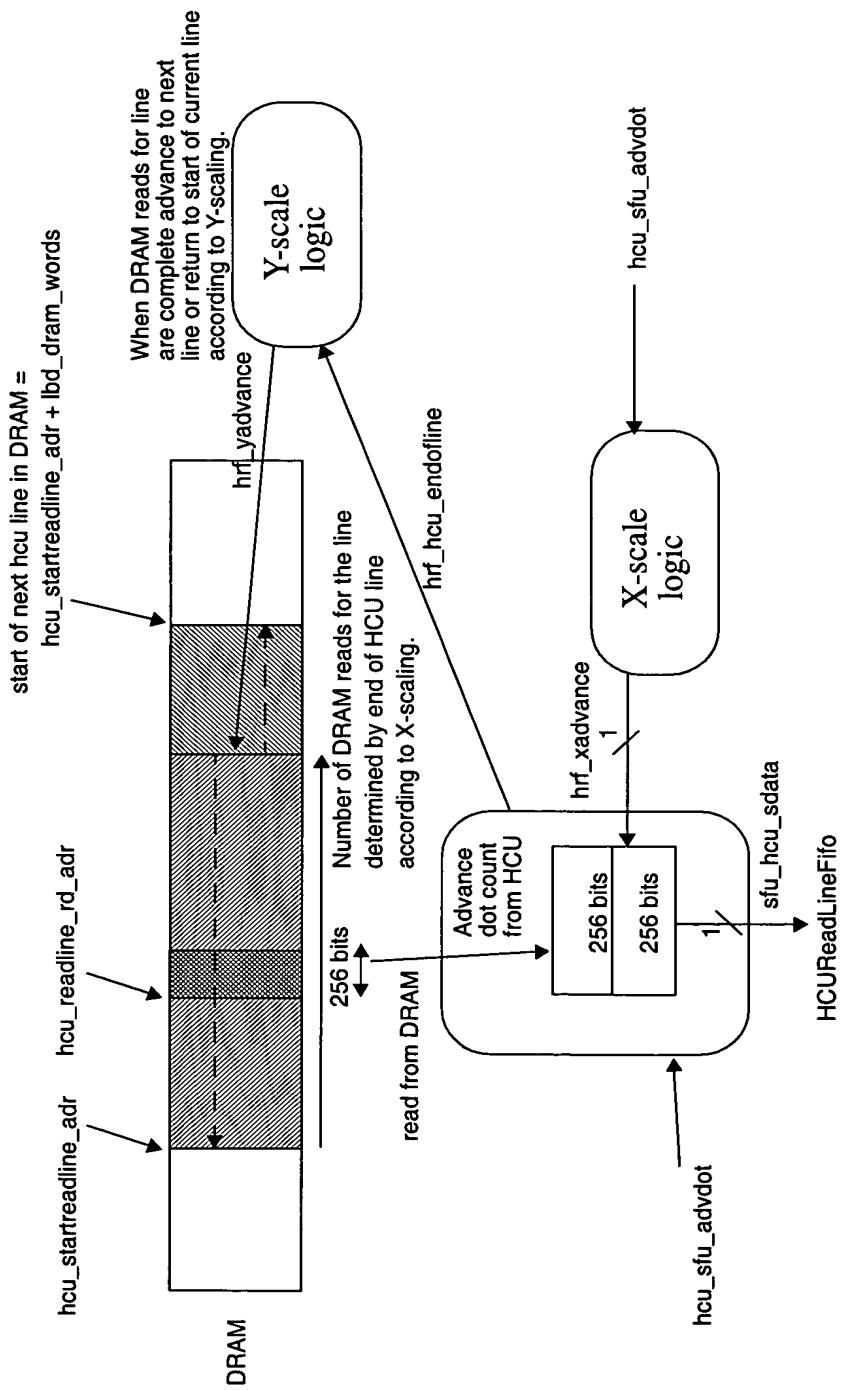


FIG. 176

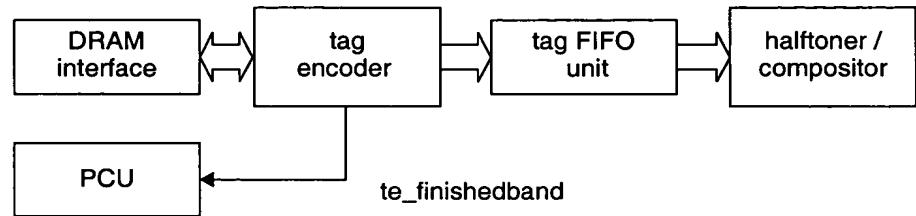


FIG. 177

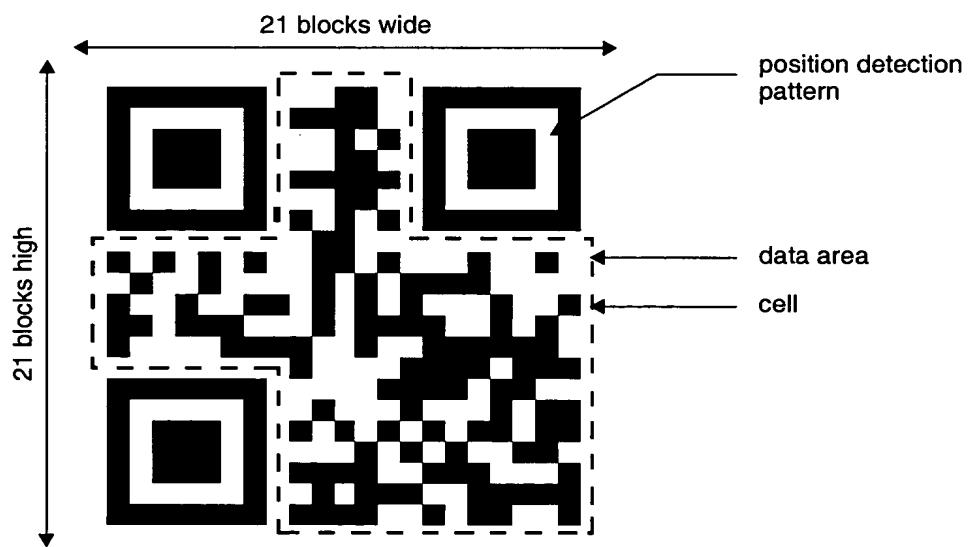
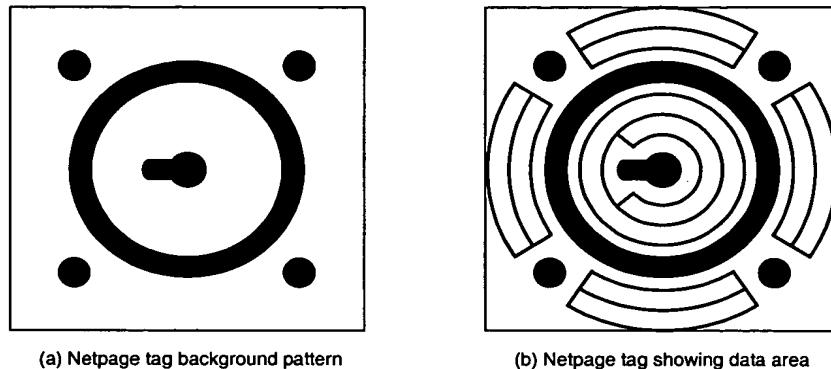


FIG. 178



(a) Netpage tag background pattern

(b) Netpage tag showing data area

FIG. 179

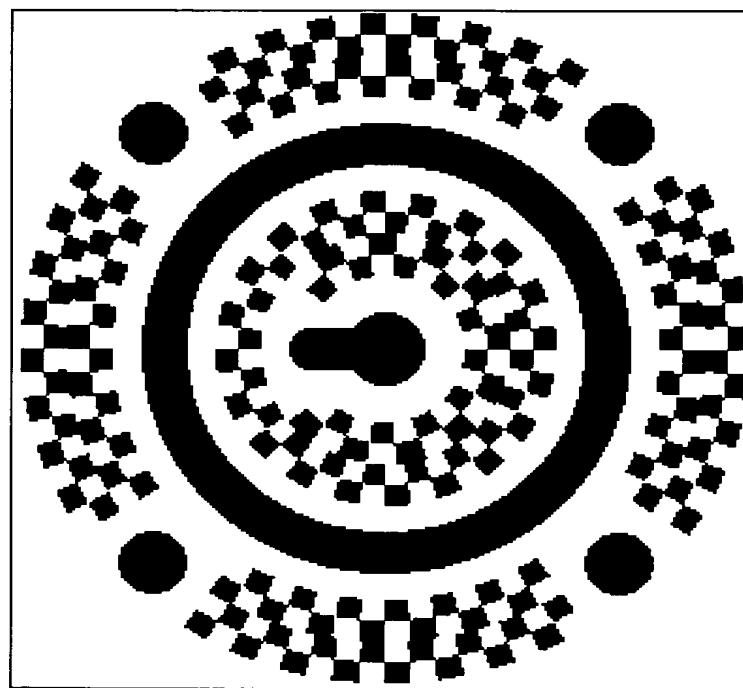


FIG. 180

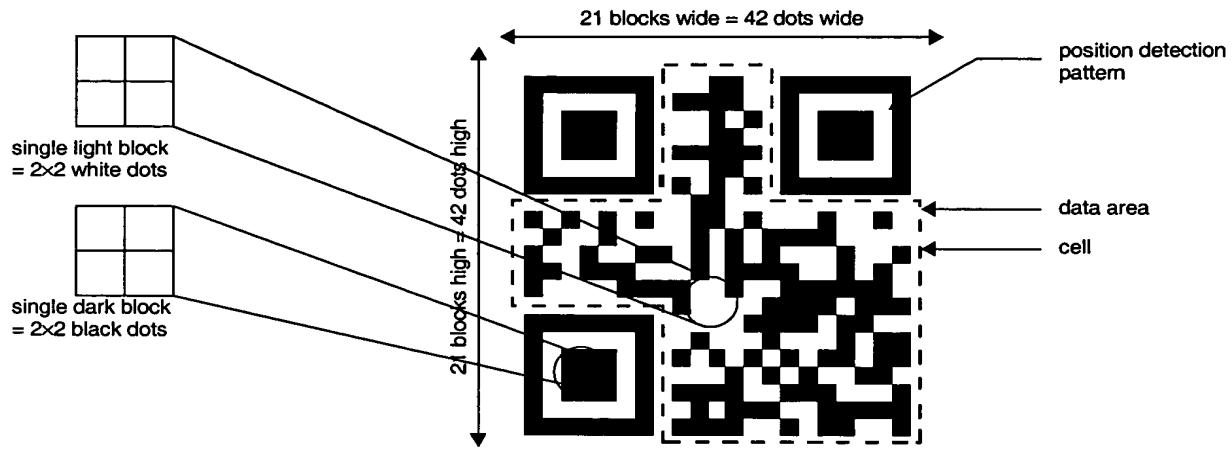


FIG. 181

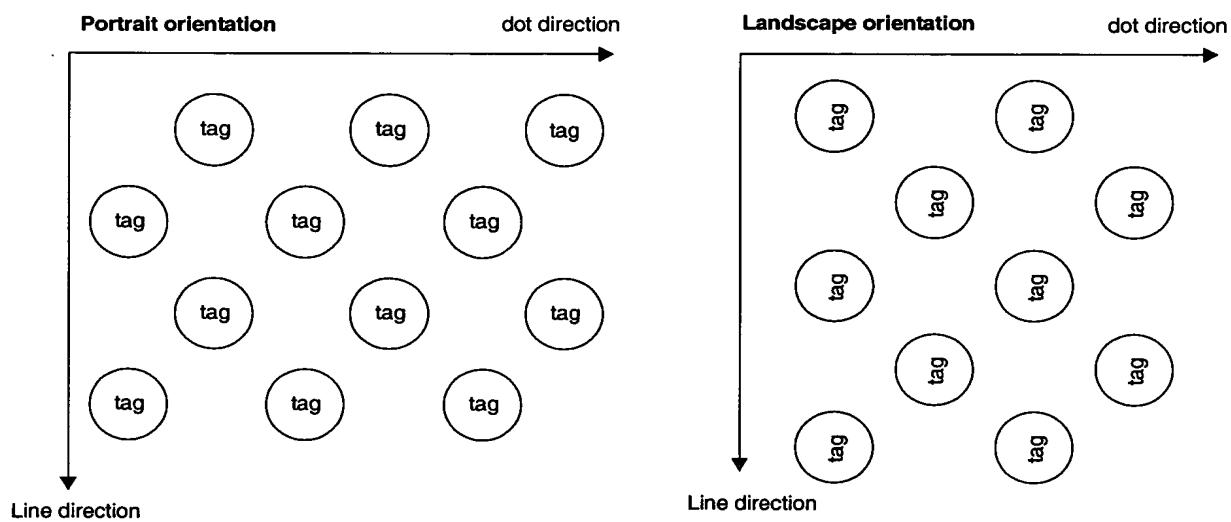


FIG. 182

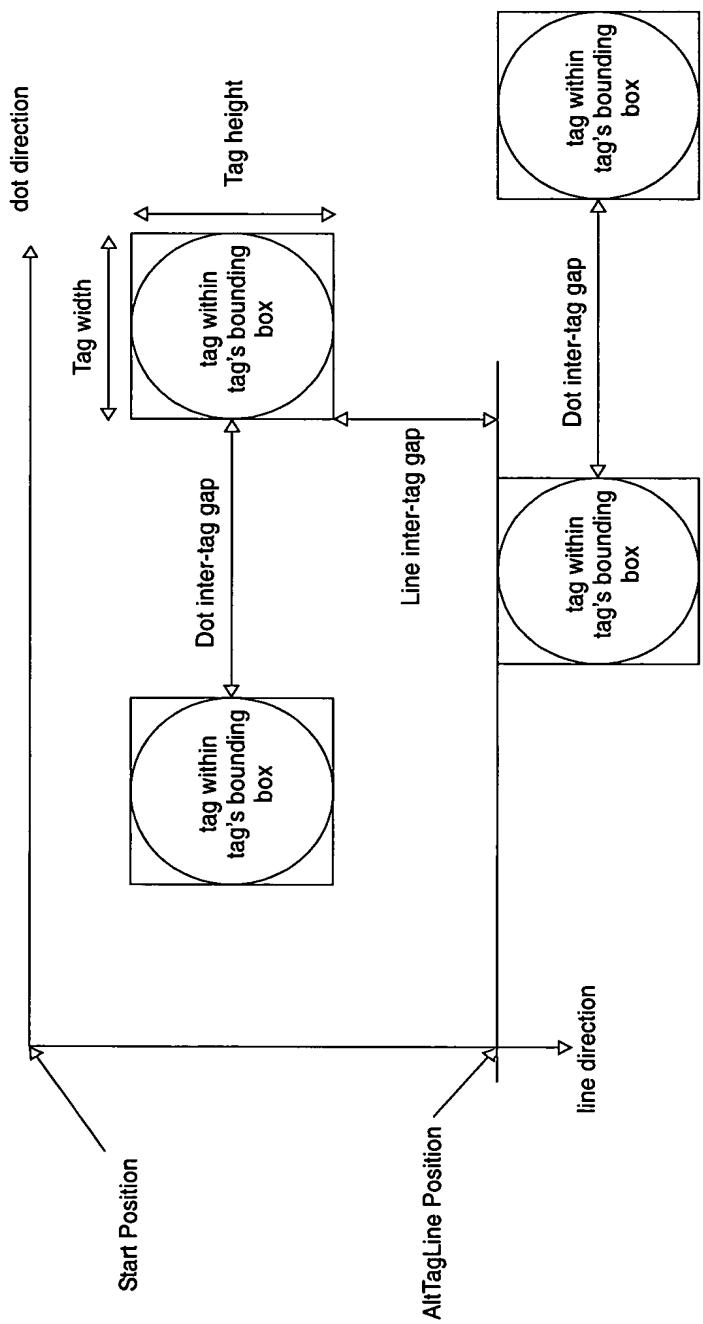
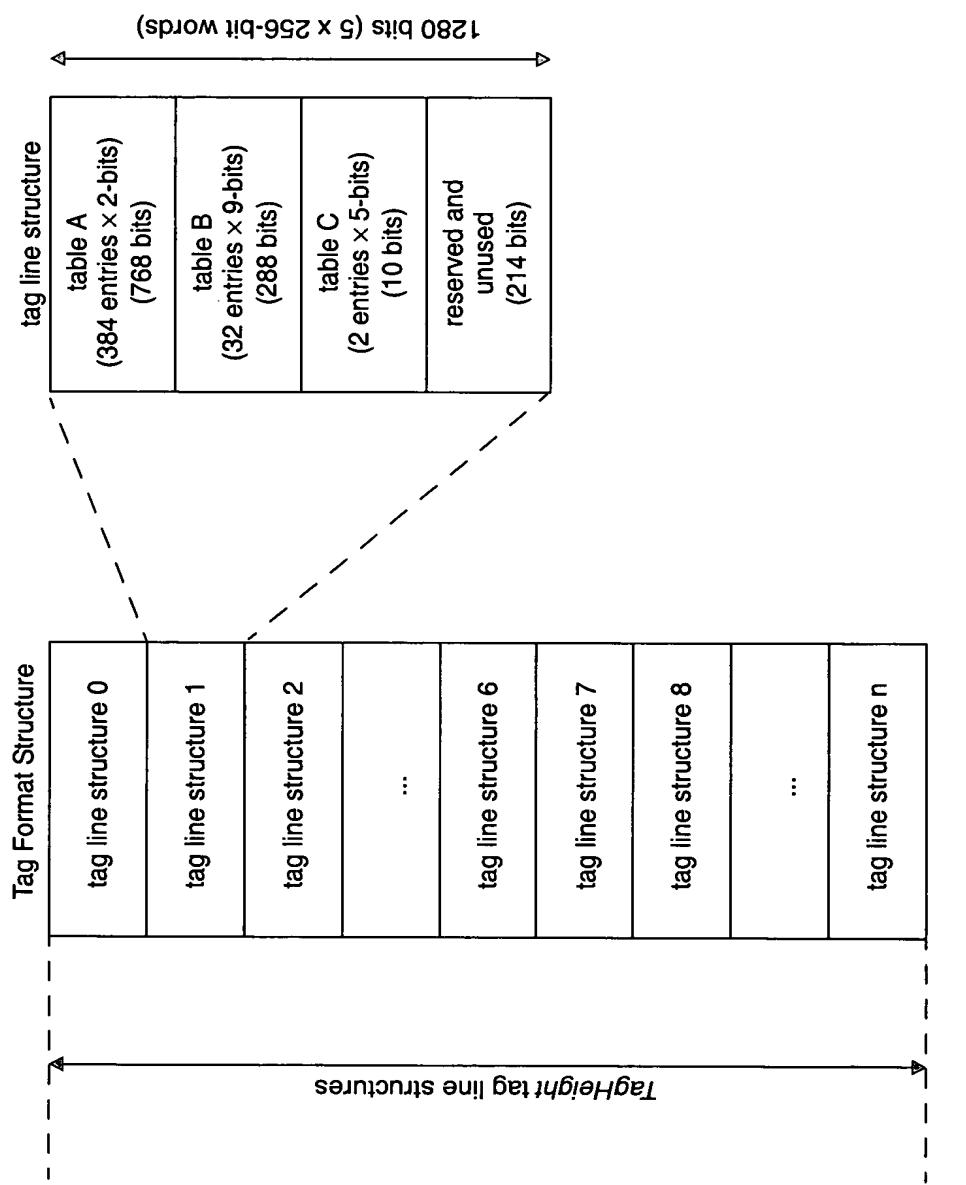


FIG. 183



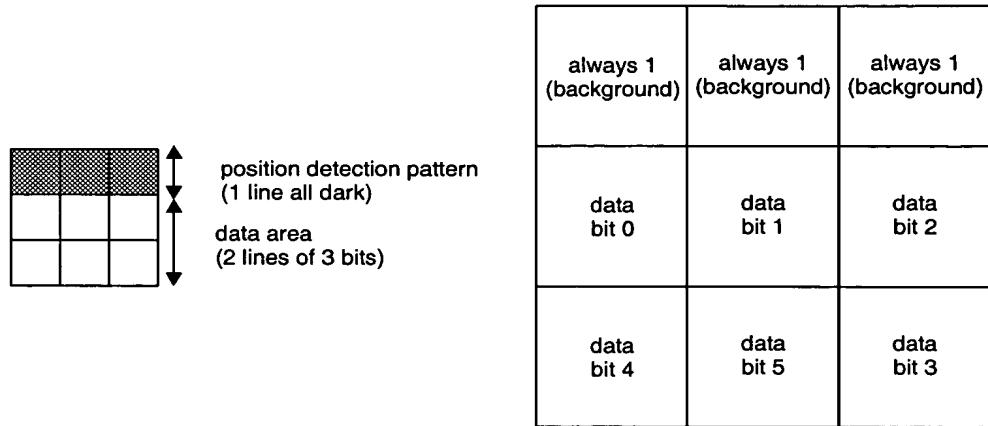


FIG. 185

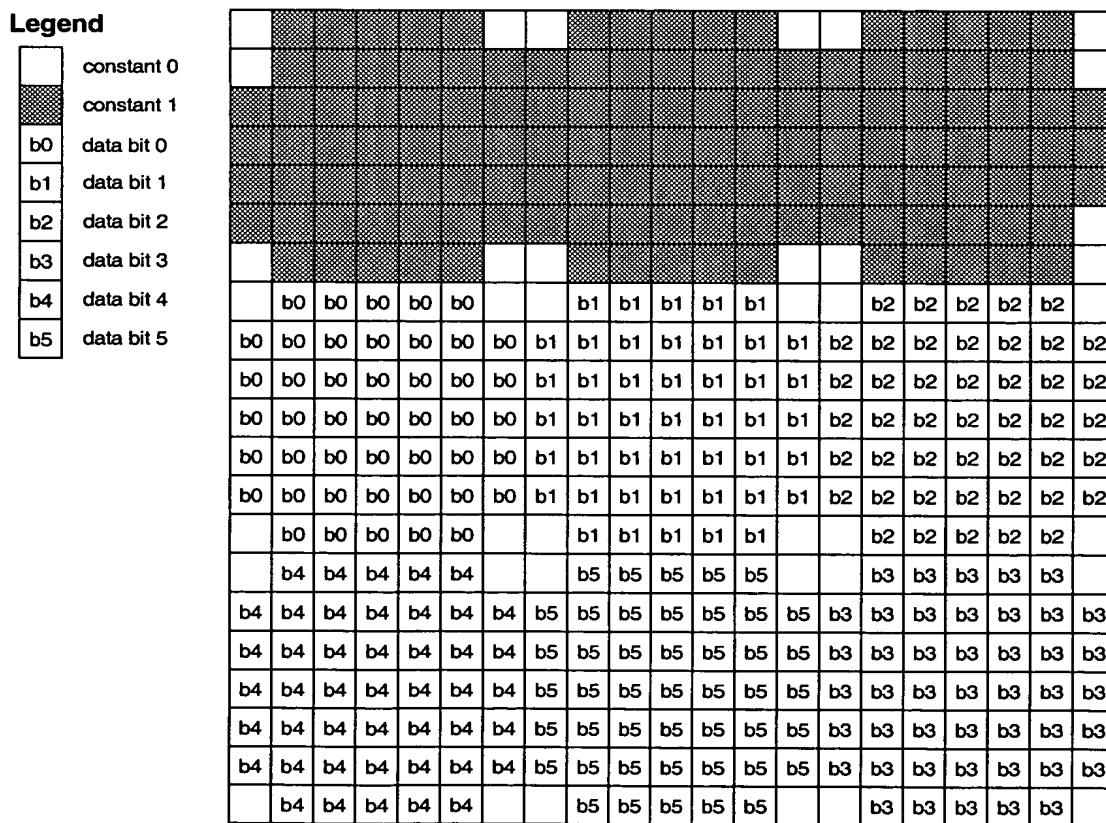


FIG. 186

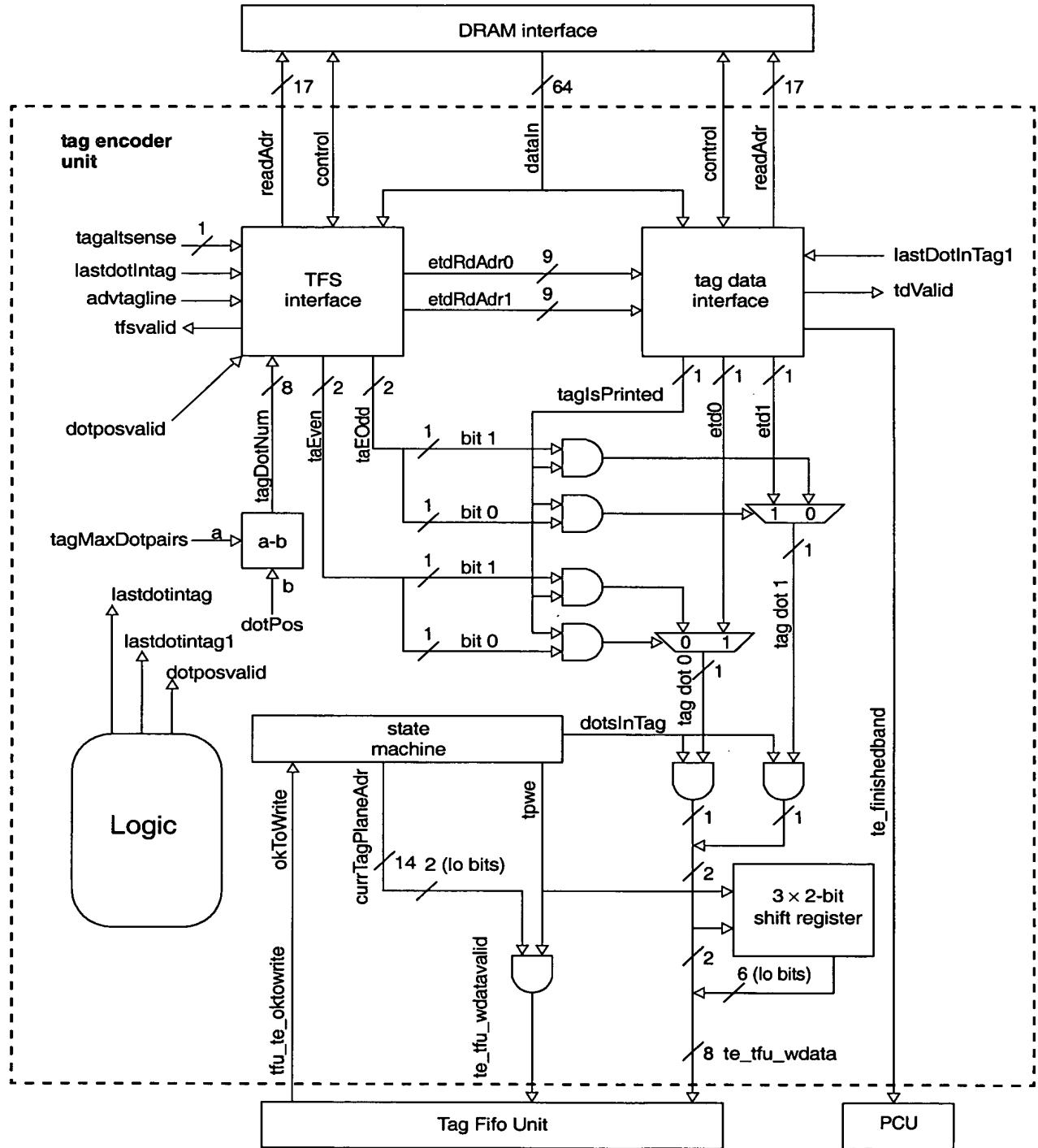


FIG. 187

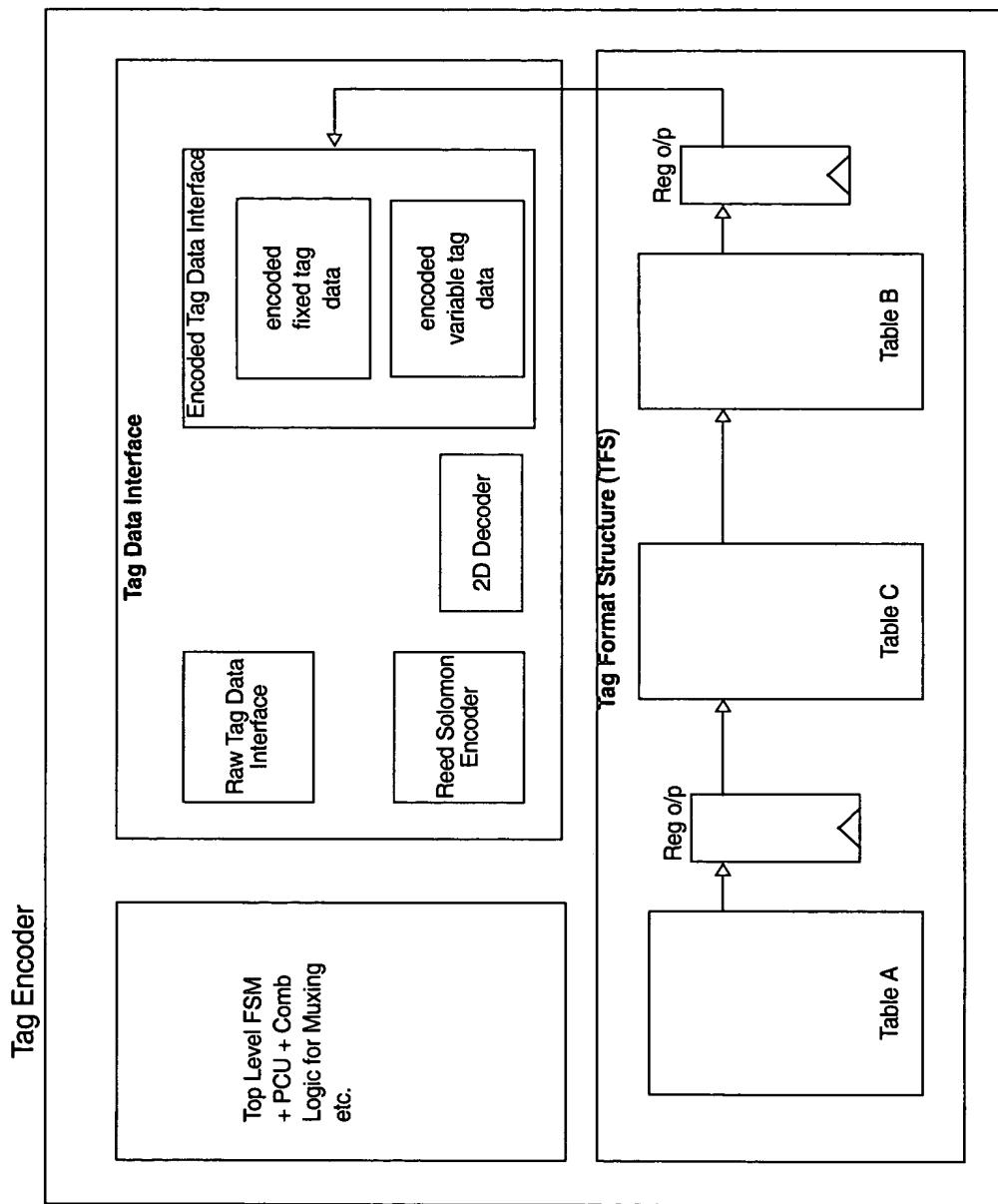


FIG. 188

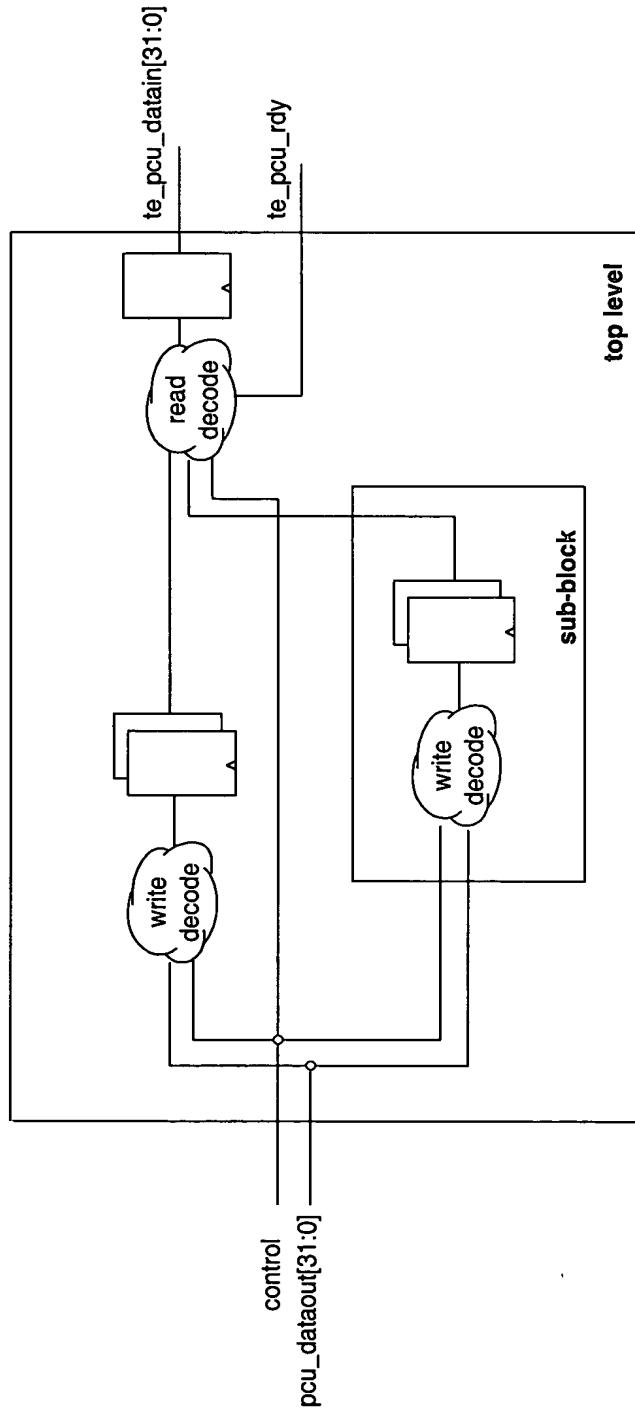


FIG. 189

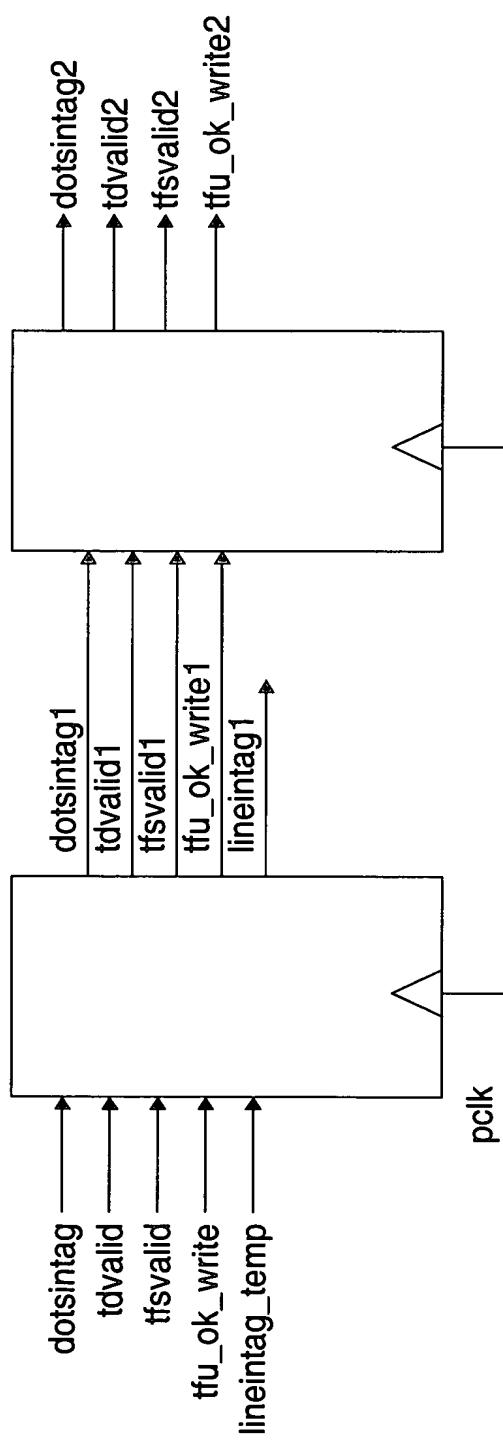


FIG. 191

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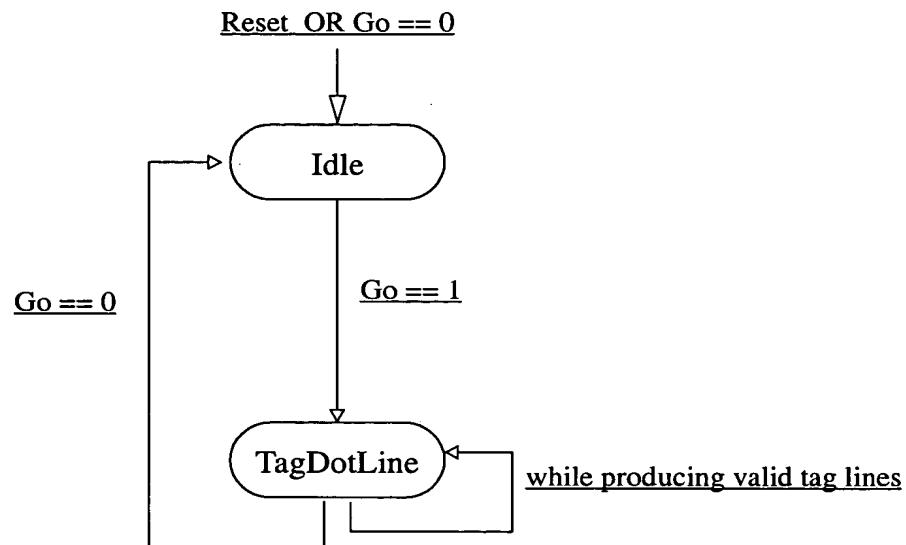


FIG. 190

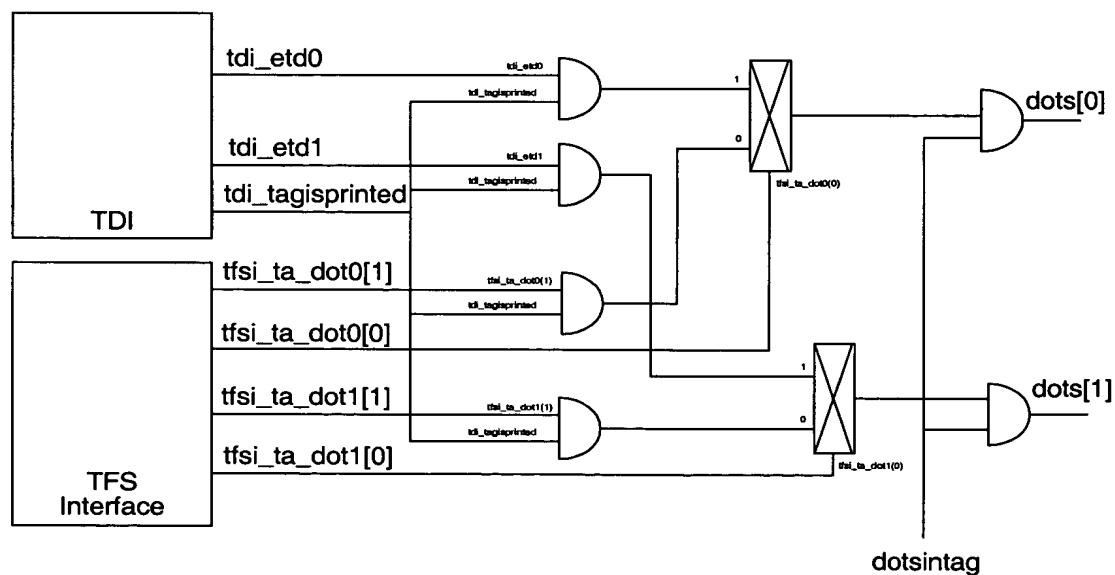


FIG. 192

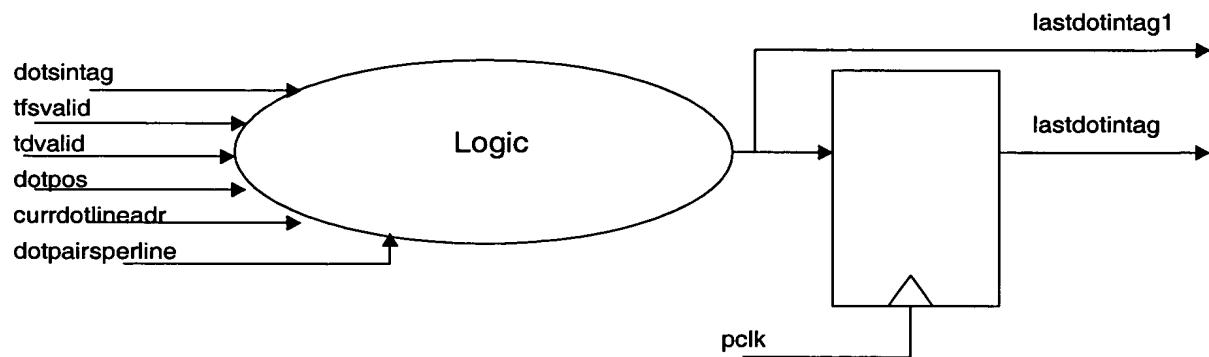


FIG. 193

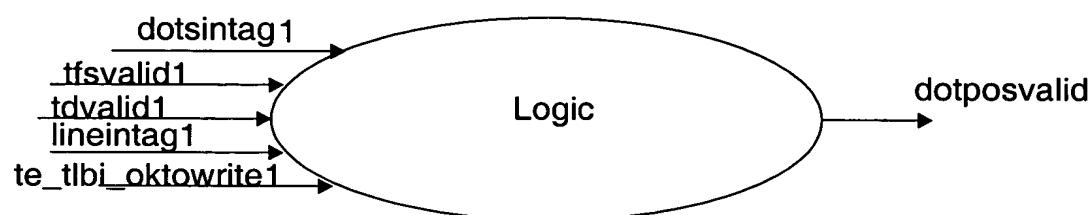


FIG. 194

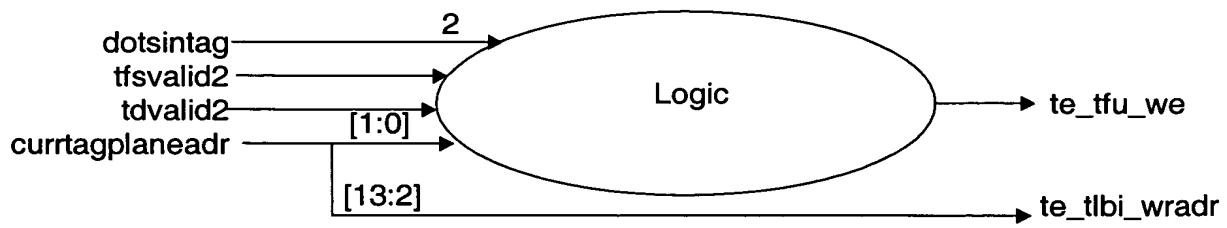


FIG. 195

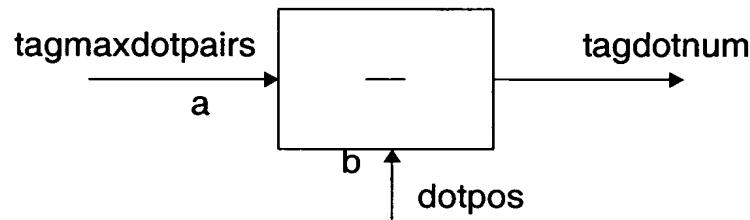


FIG. 196

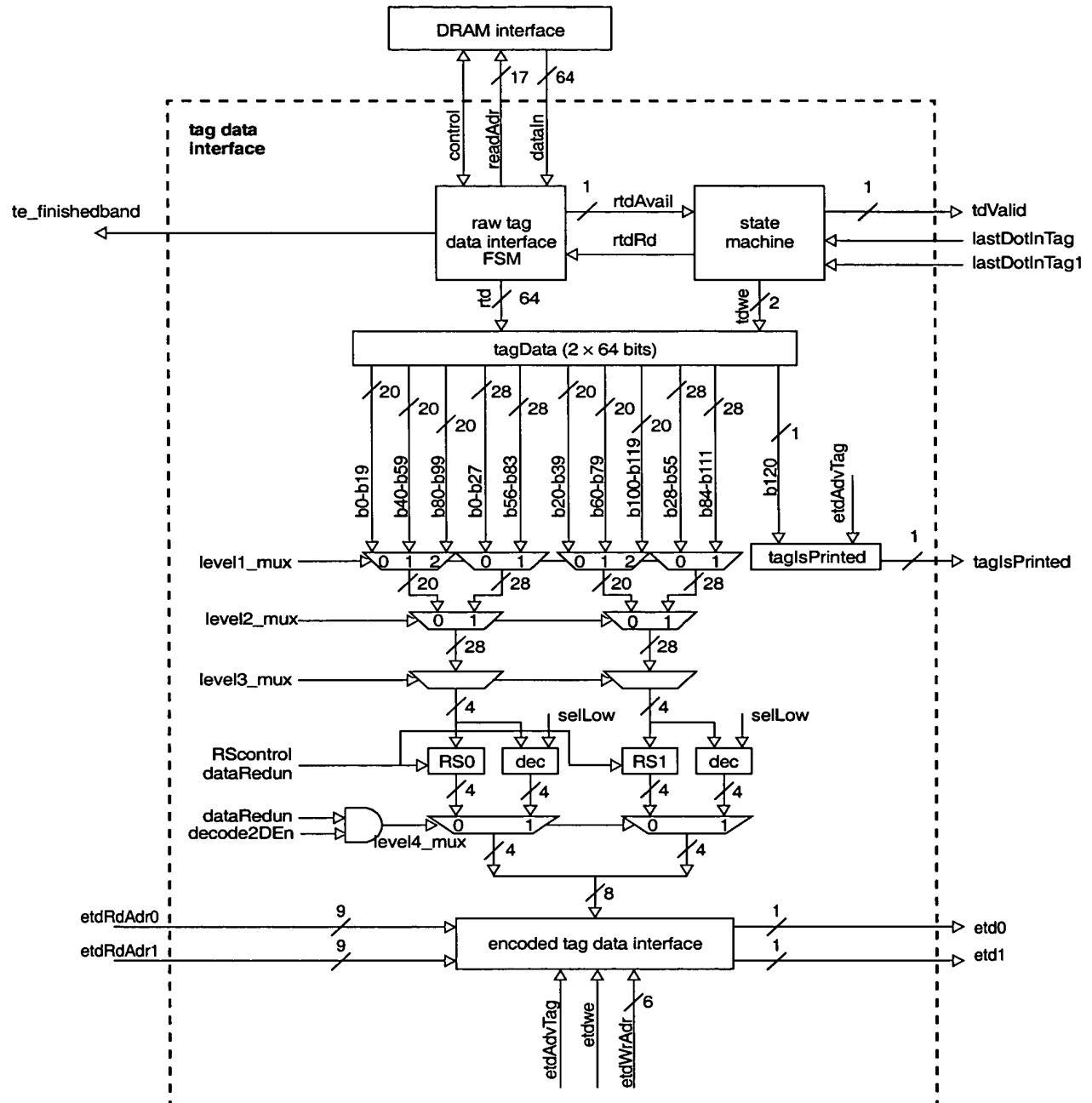


FIG. 197

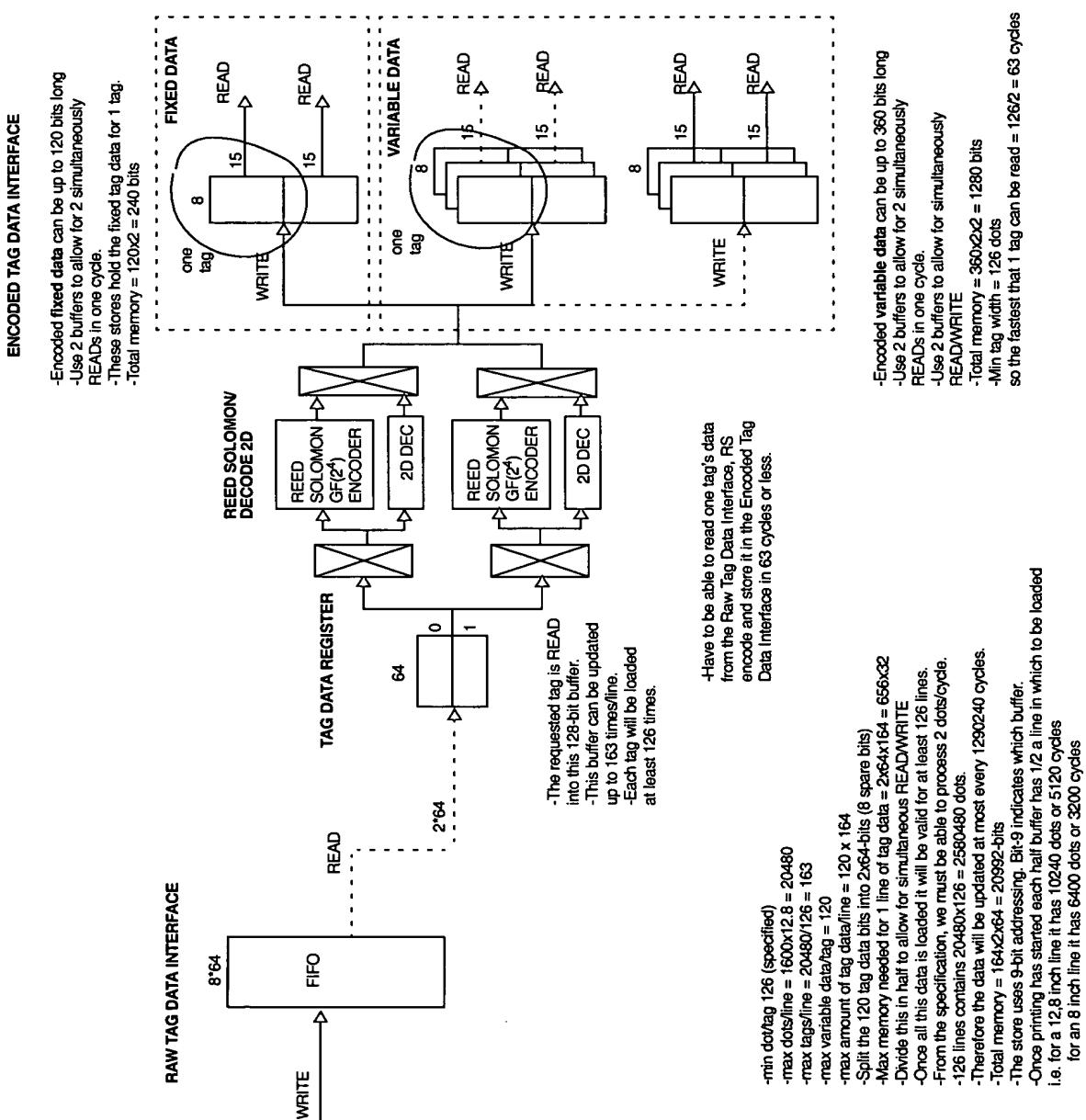
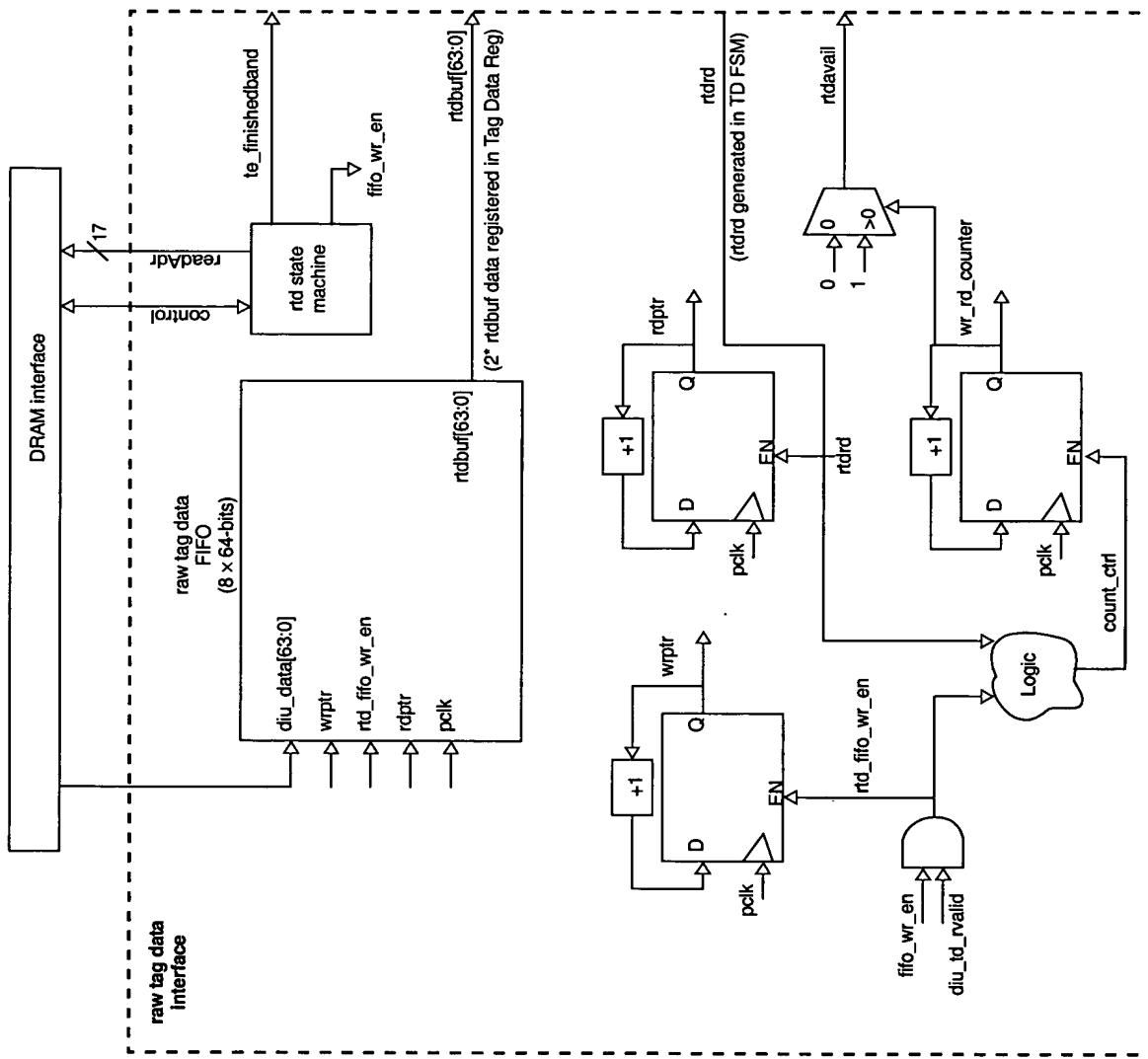


FIG. 198

FIG. 199



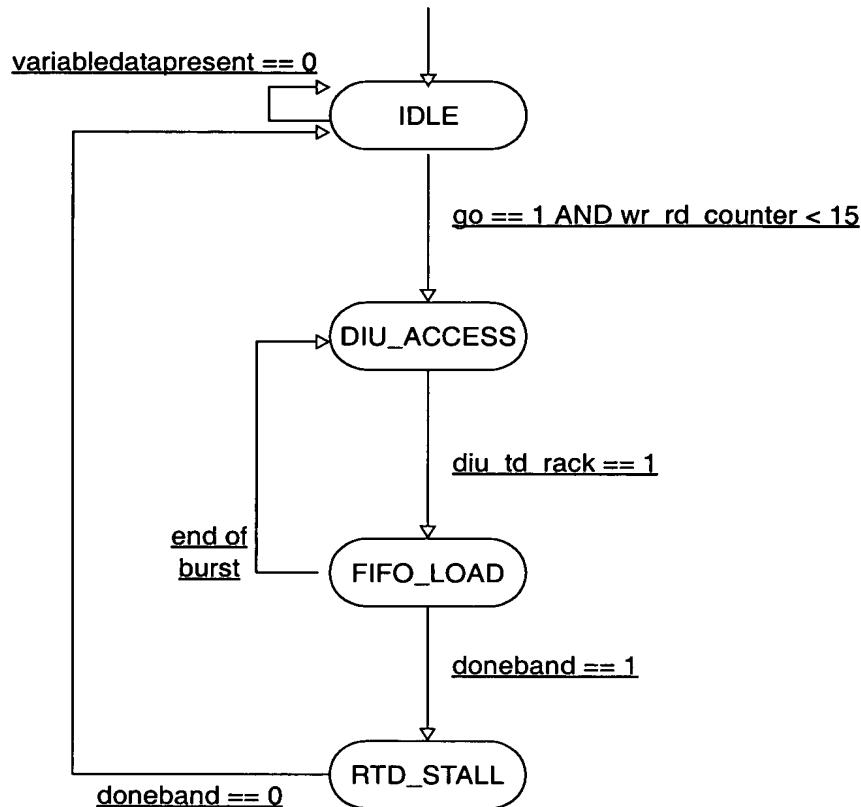


FIG. 200

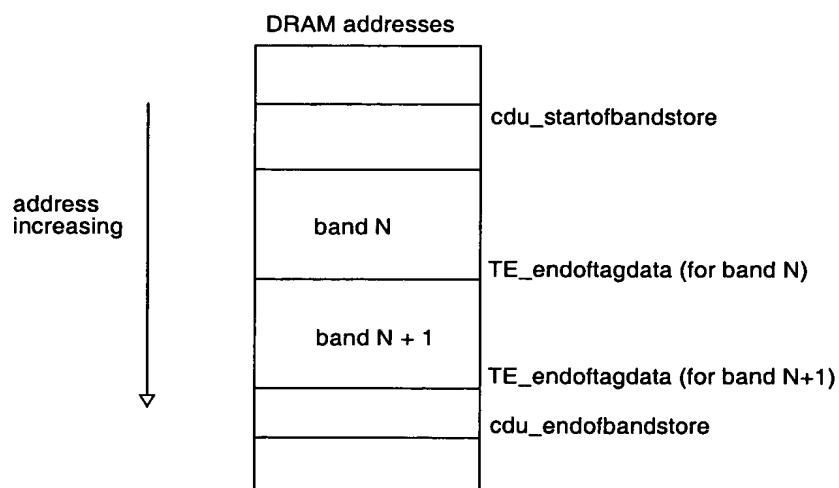


FIG. 201

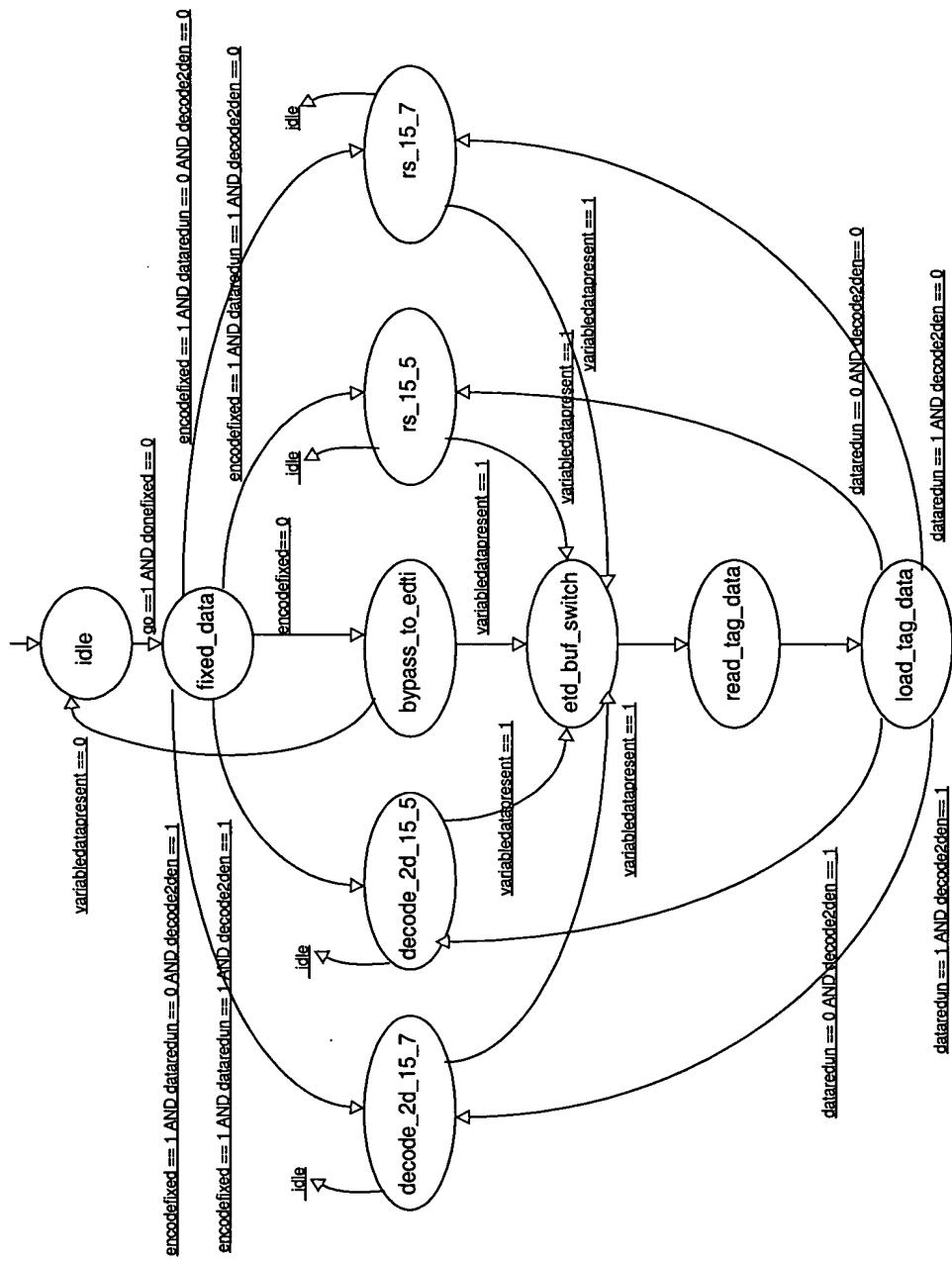


FIG. 202

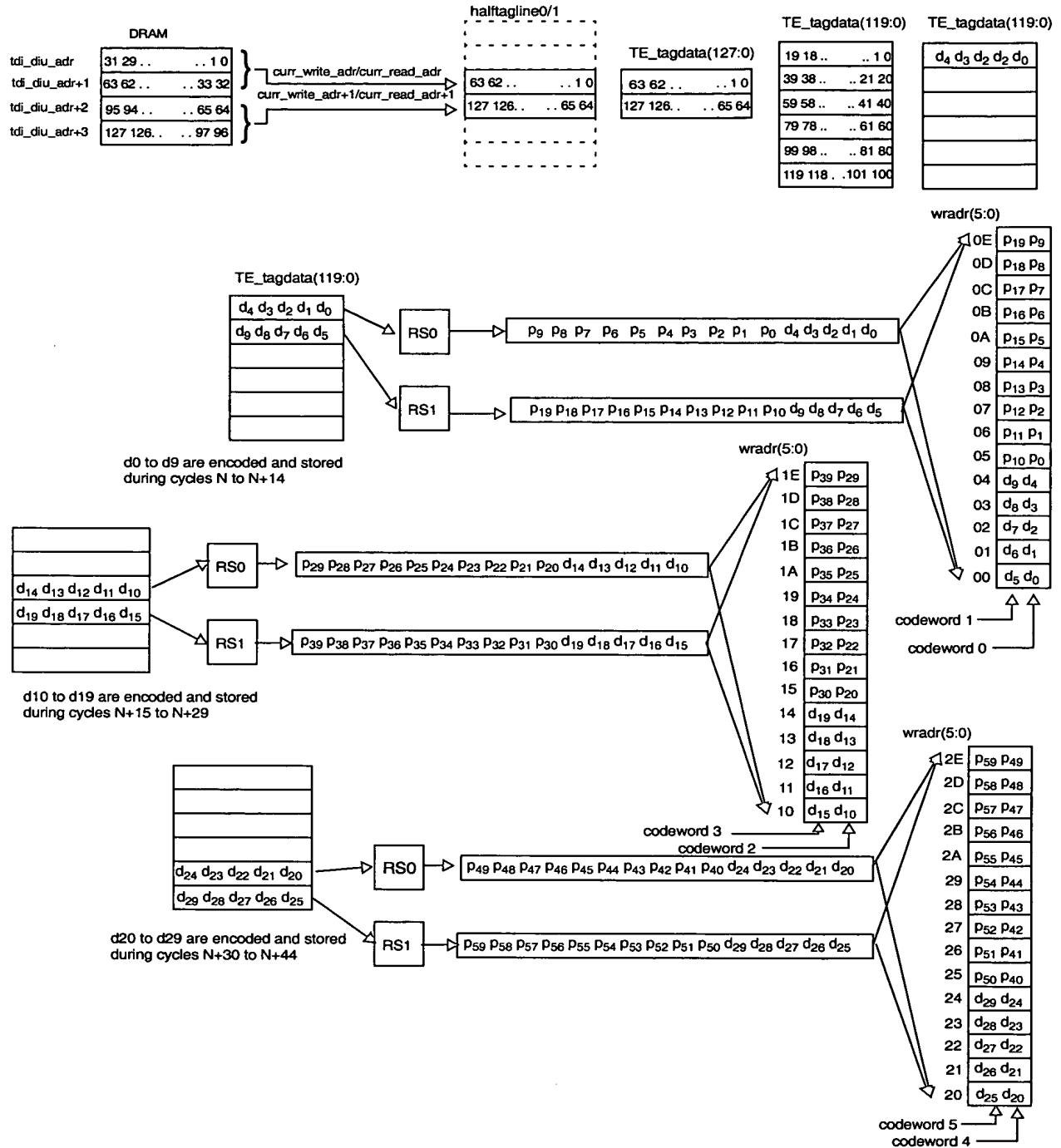


FIG. 203

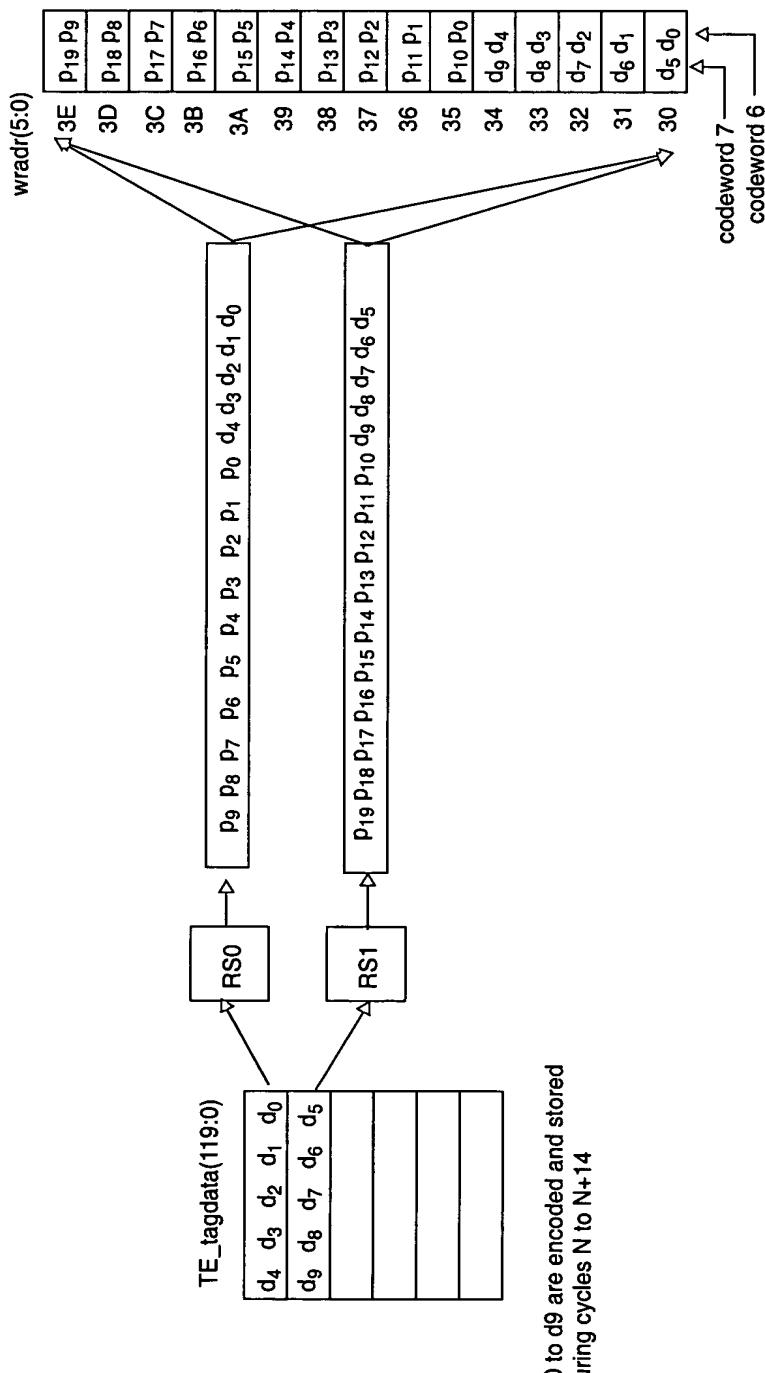


FIG. 204

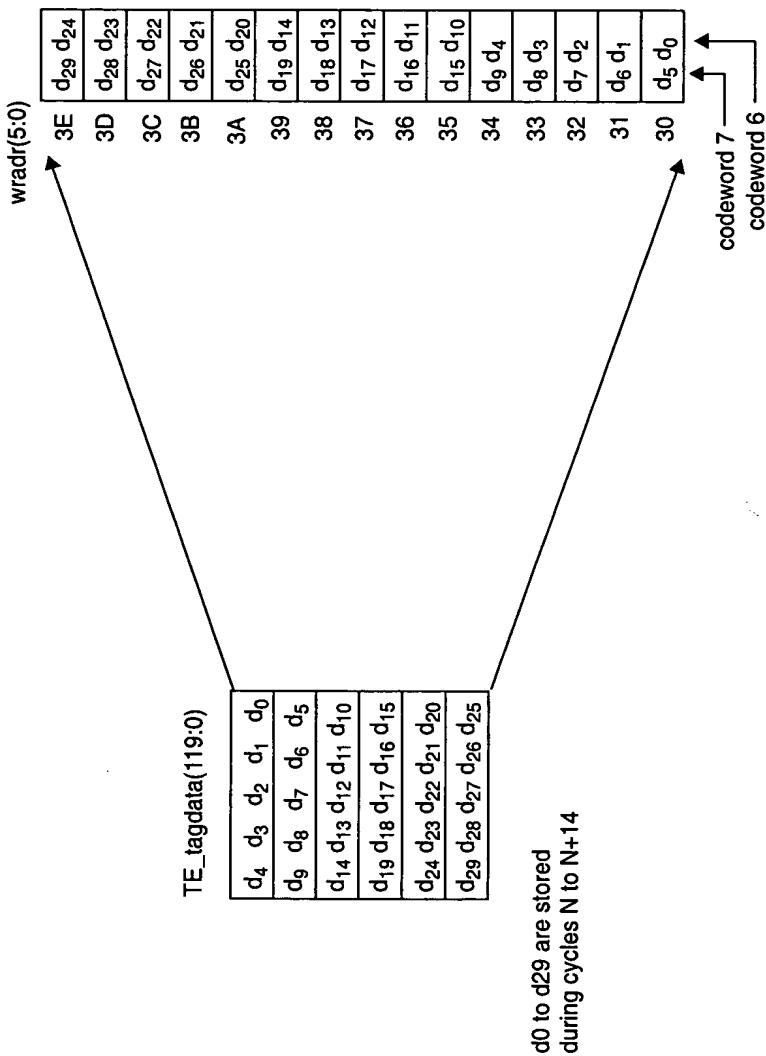


FIG. 205

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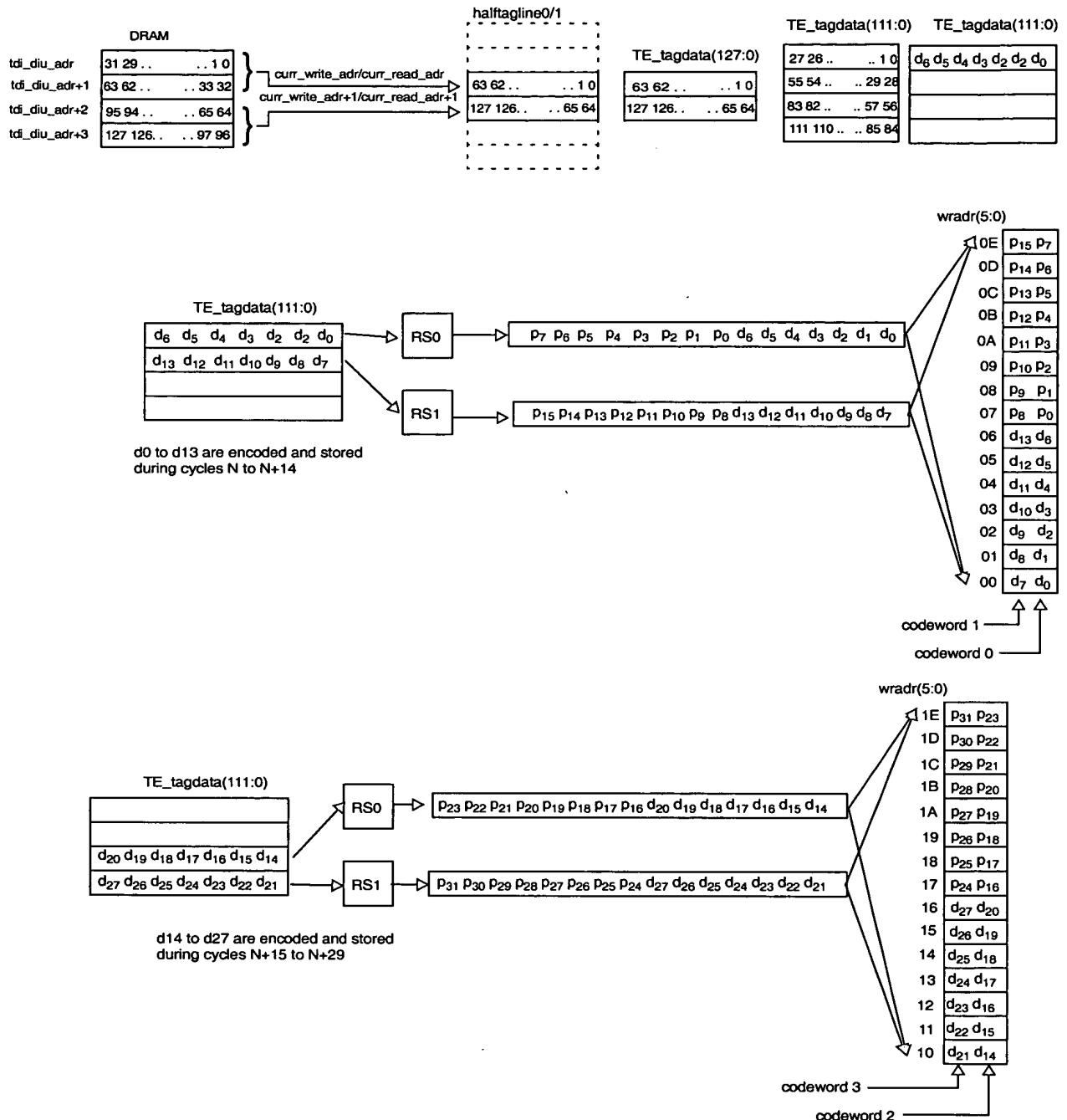


FIG. 206

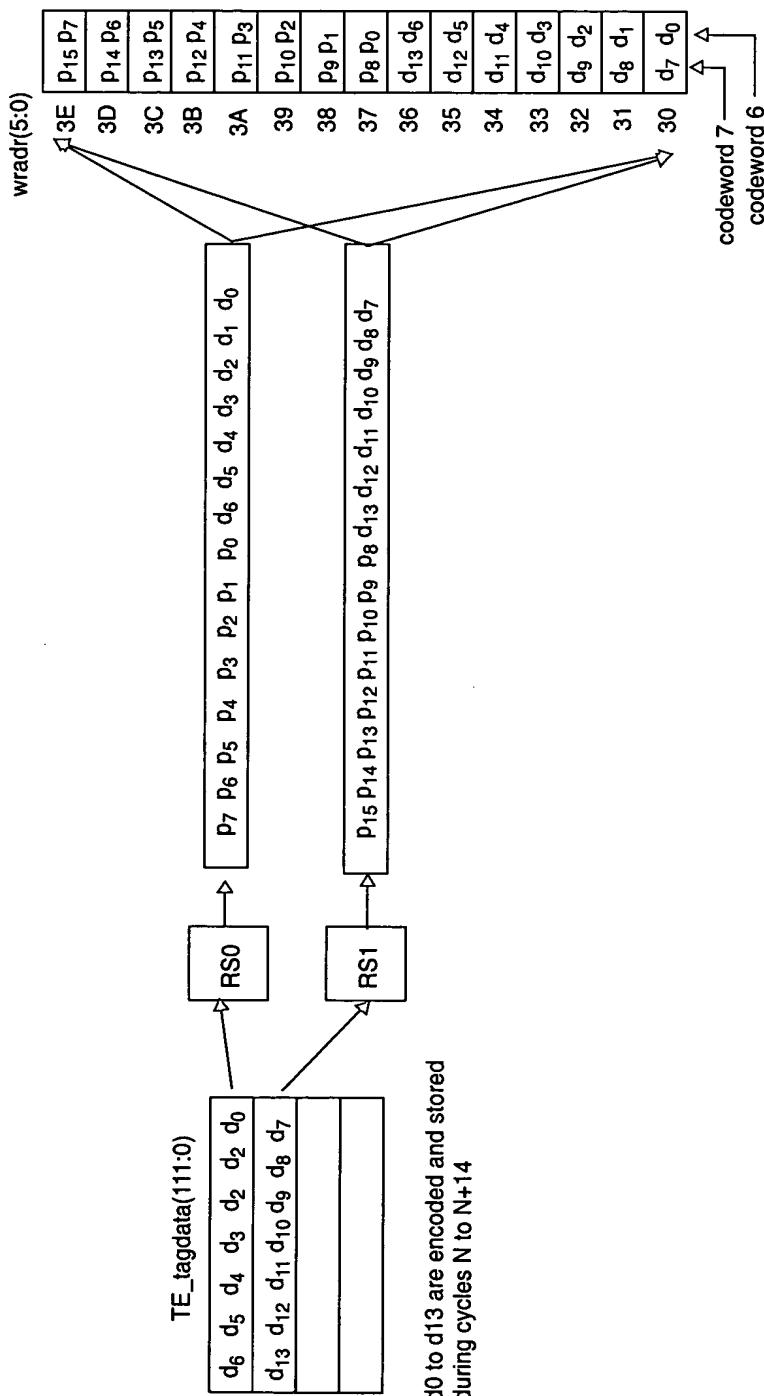


FIG. 207

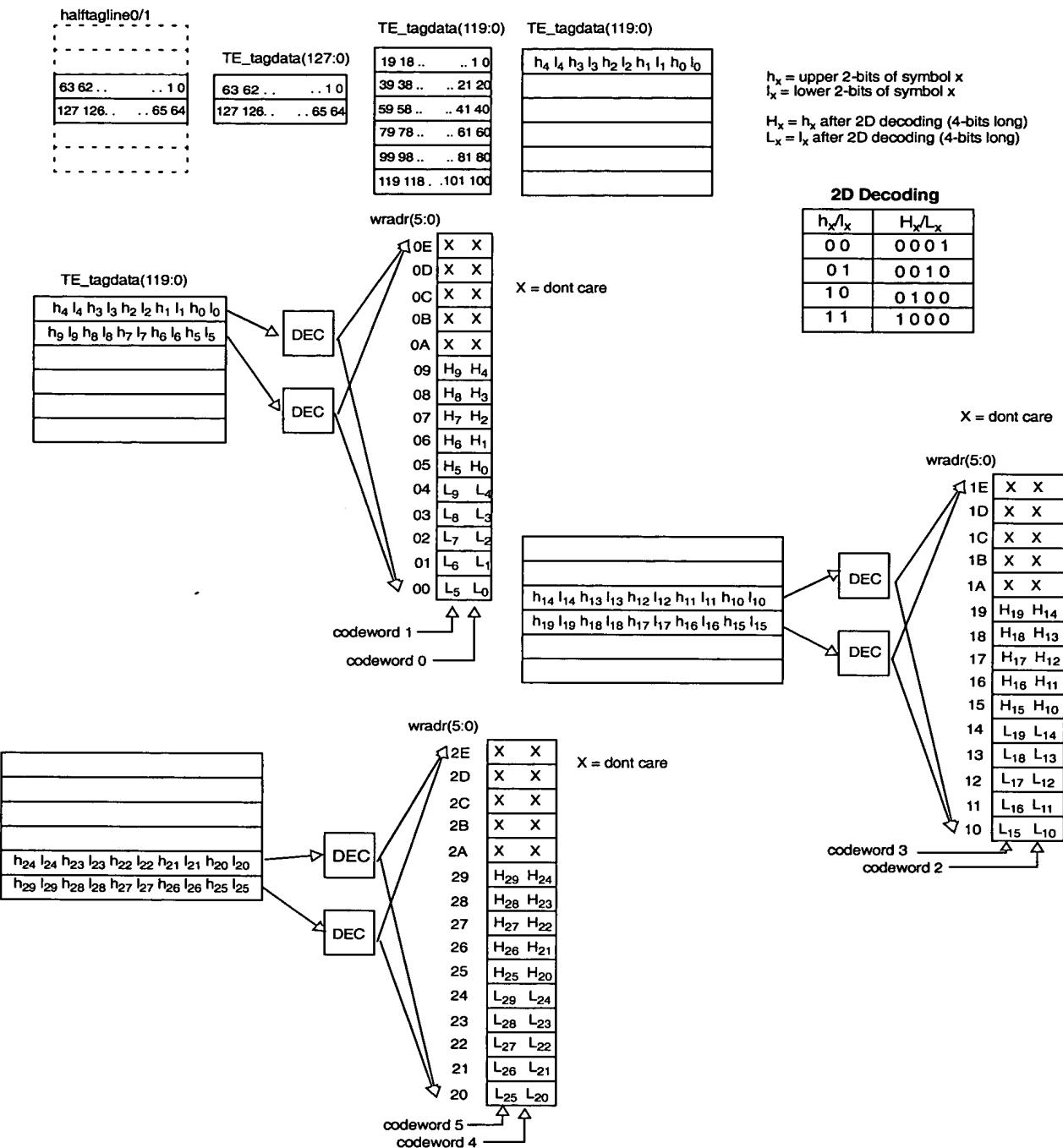


FIG. 208



FIG. 209

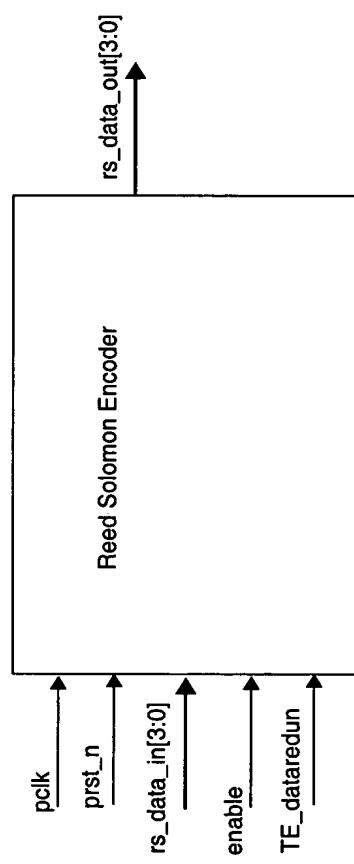


FIG. 210

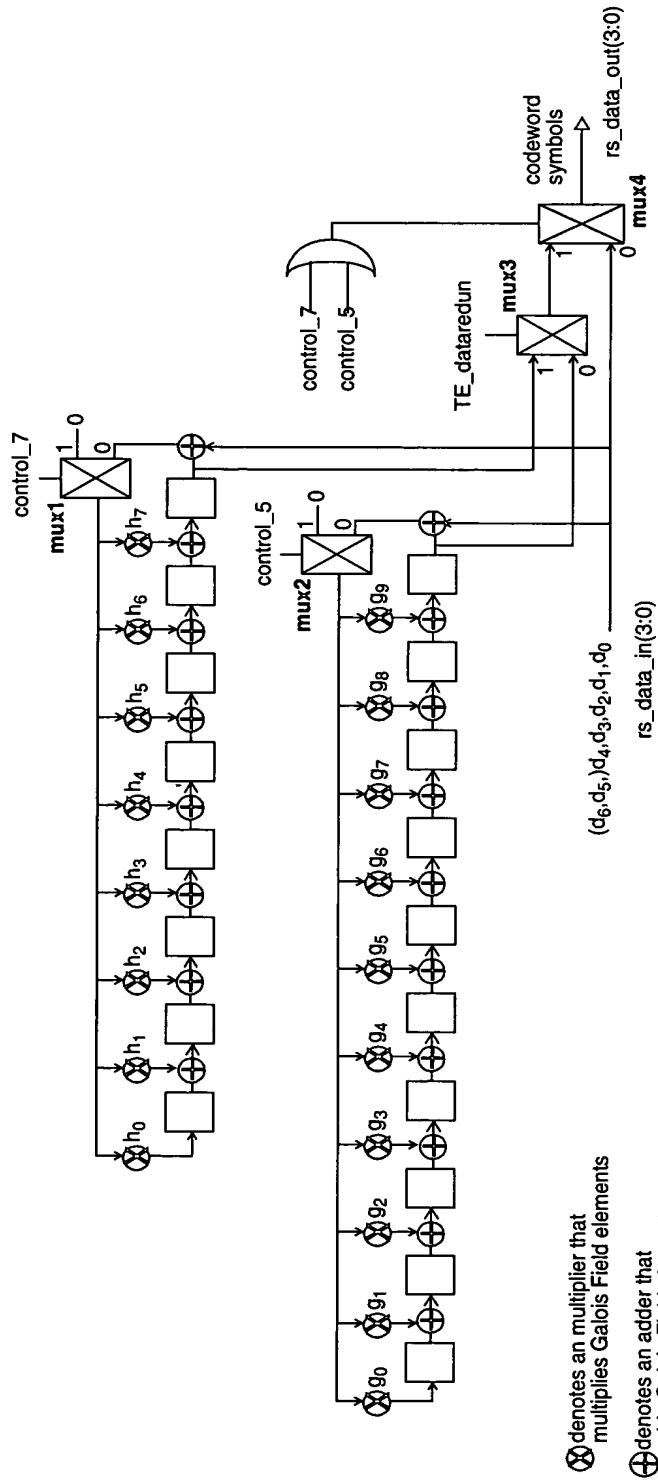


FIG. 211

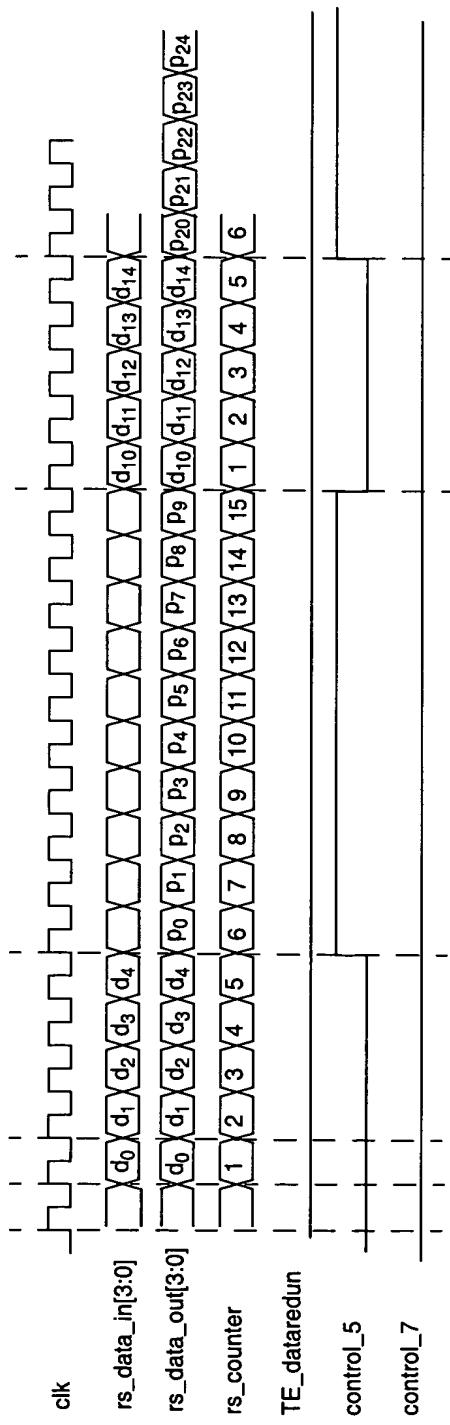


FIG. 212

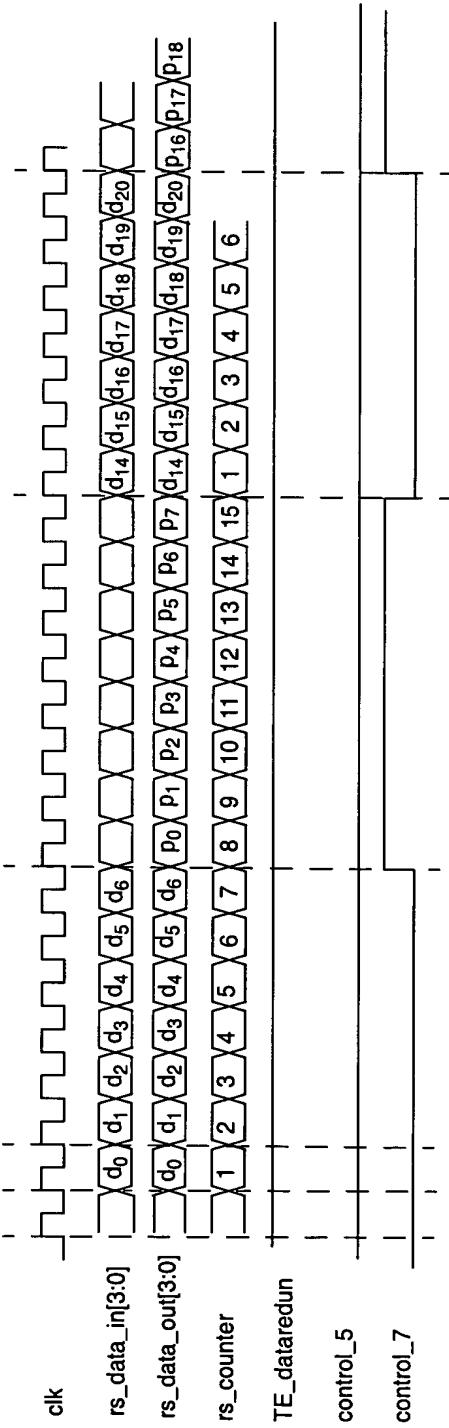
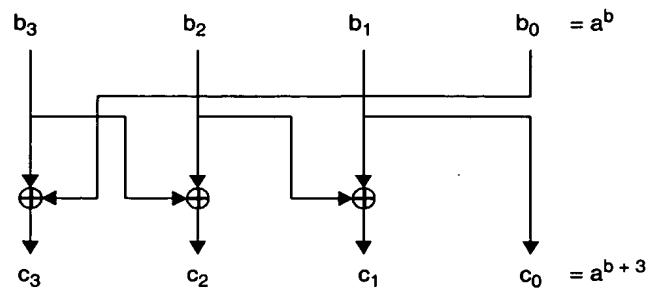
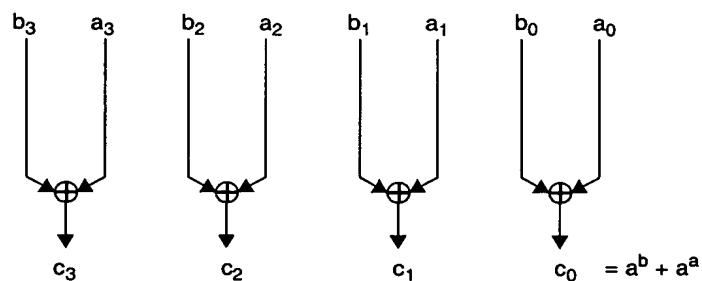


FIG. 213



\oplus exclusive OR gate

FIG. 214



\oplus exclusive OR gate

FIG. 215

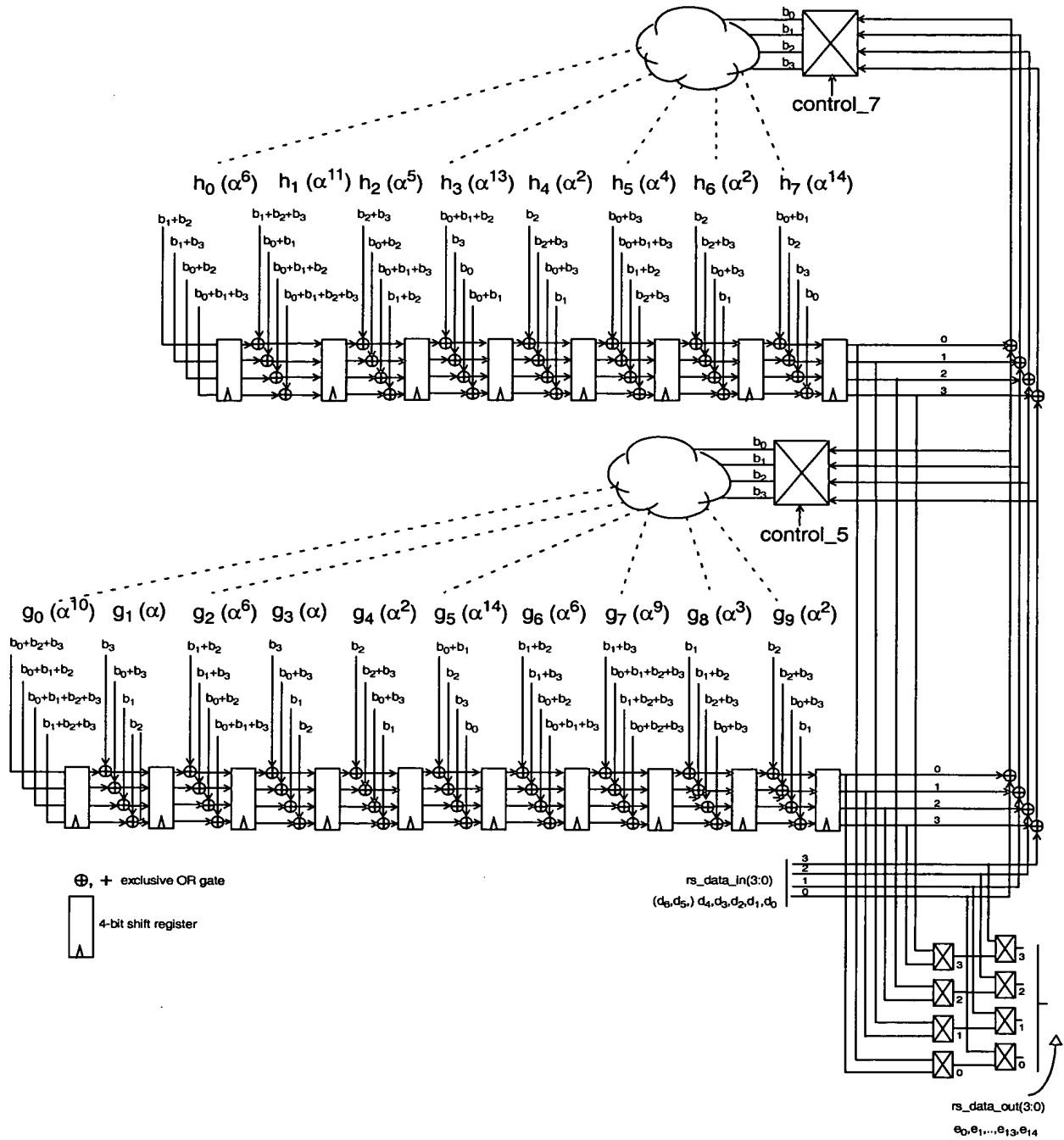


FIG. 216

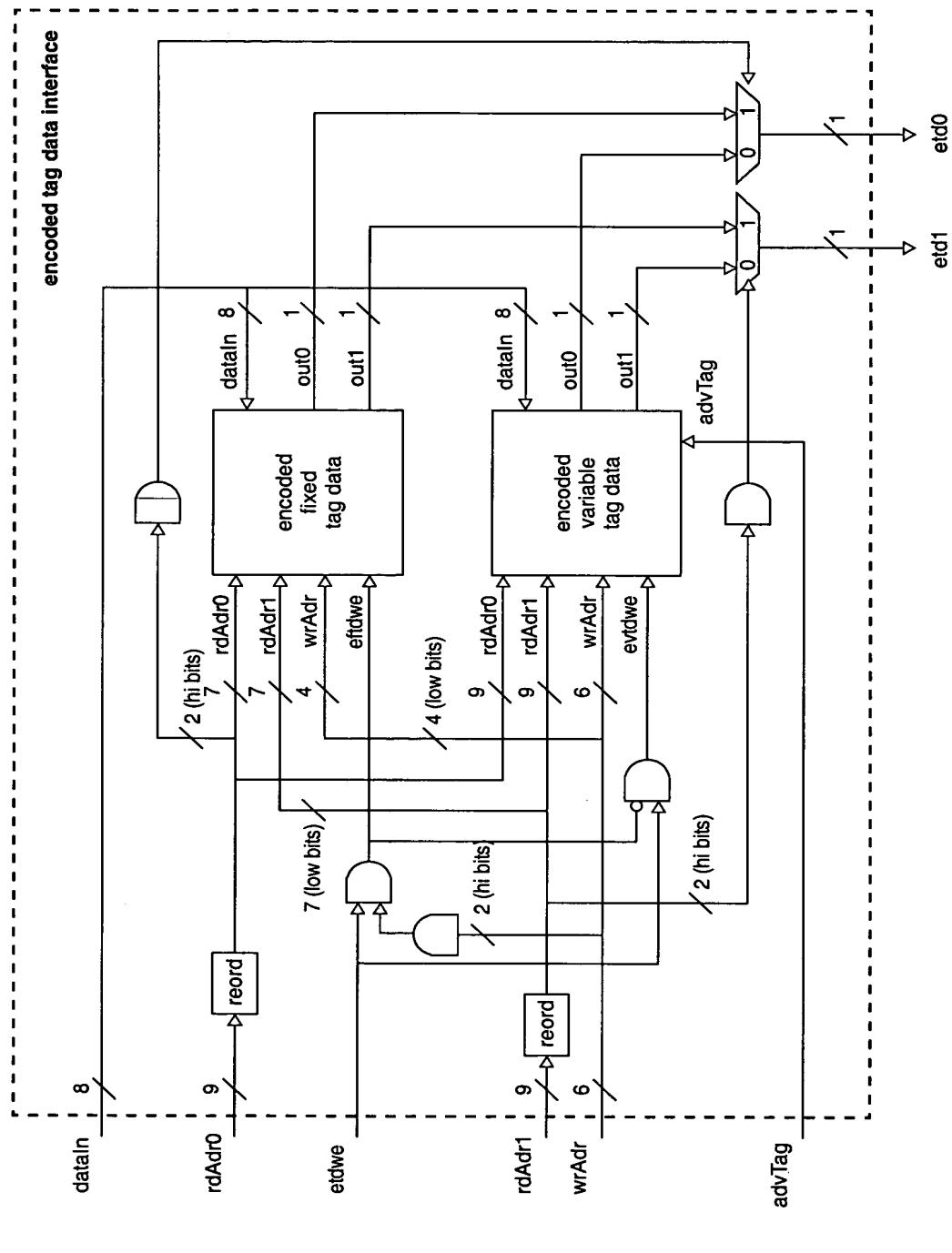


FIG. 217

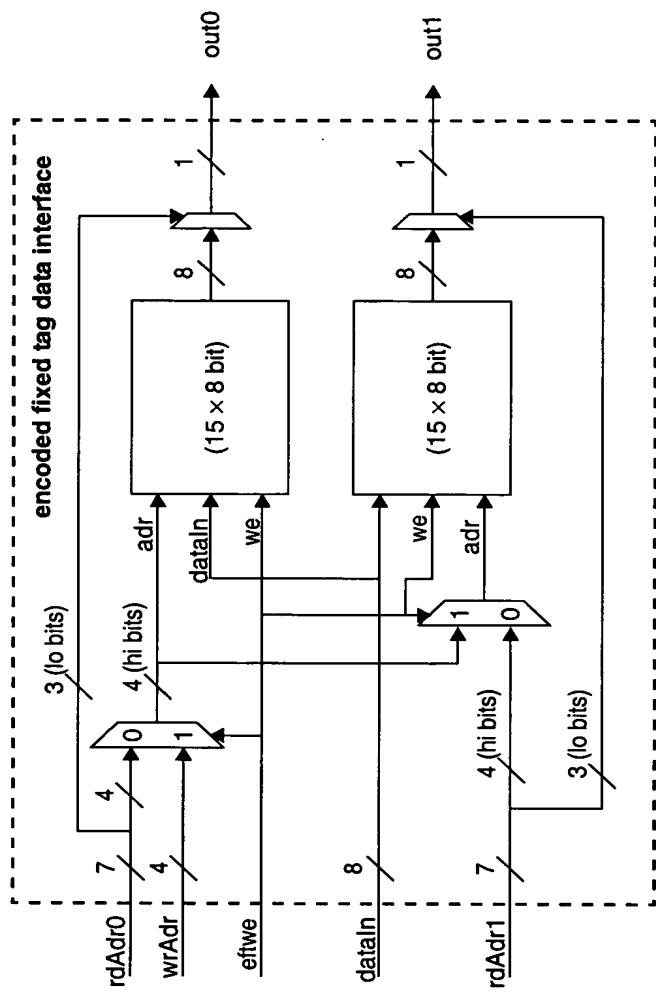


FIG. 218

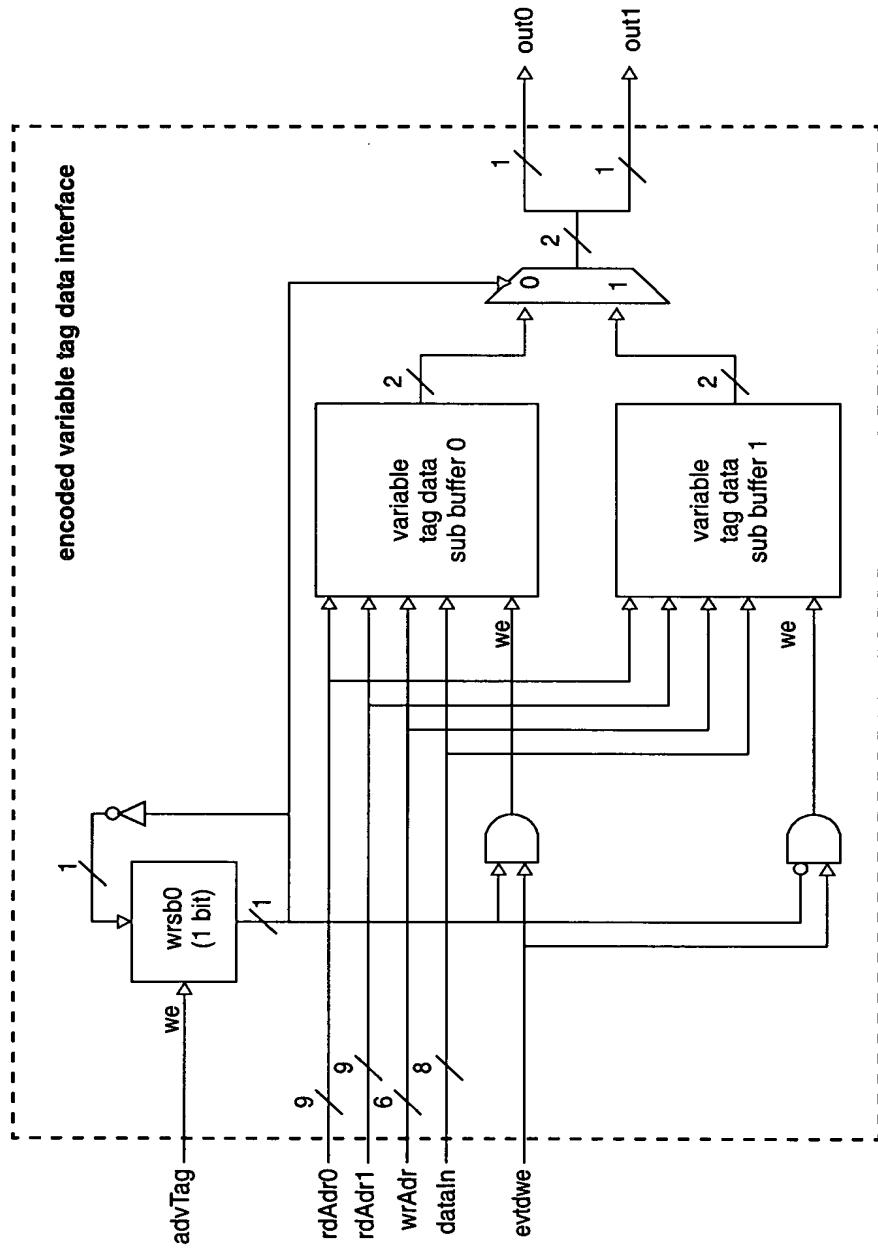


FIG. 219

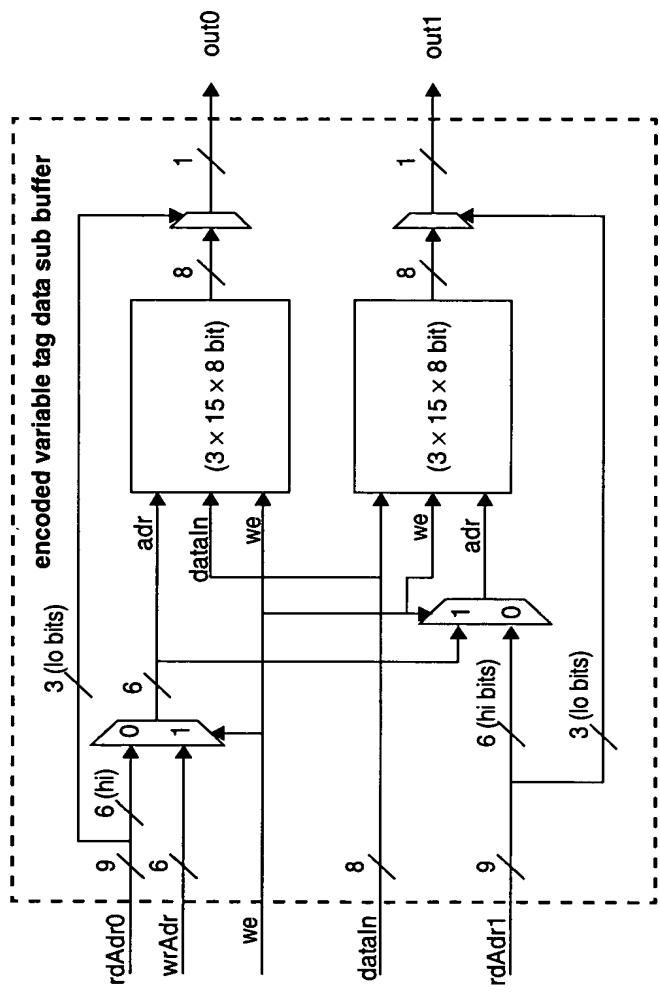


FIG. 220

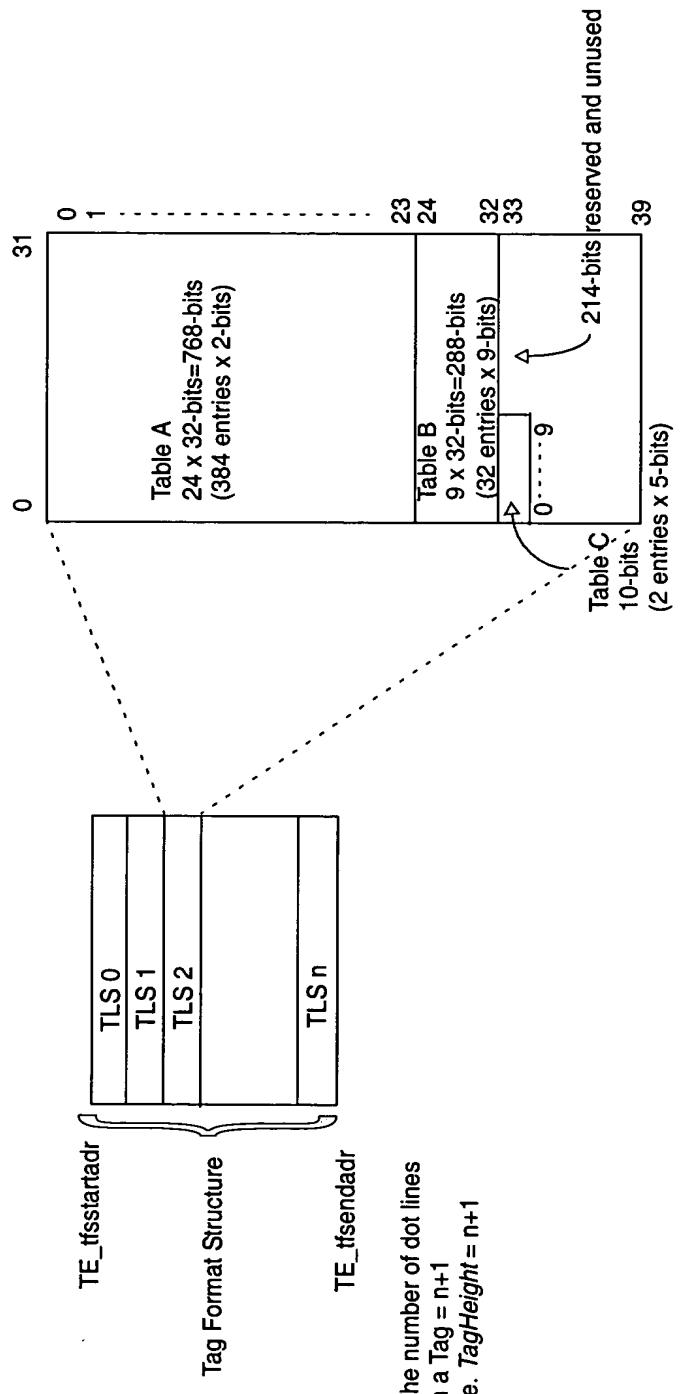


FIG. 221

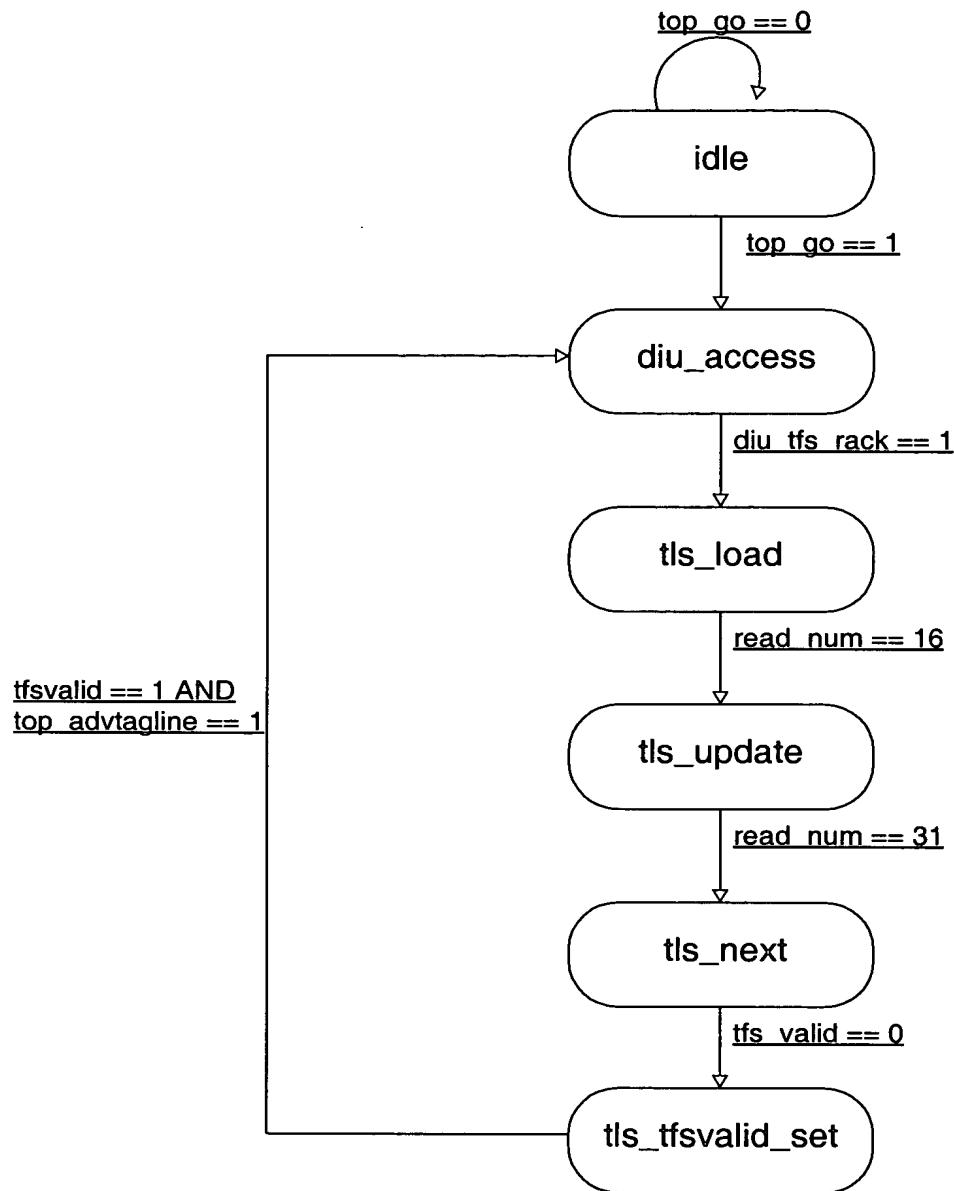


FIG. 222

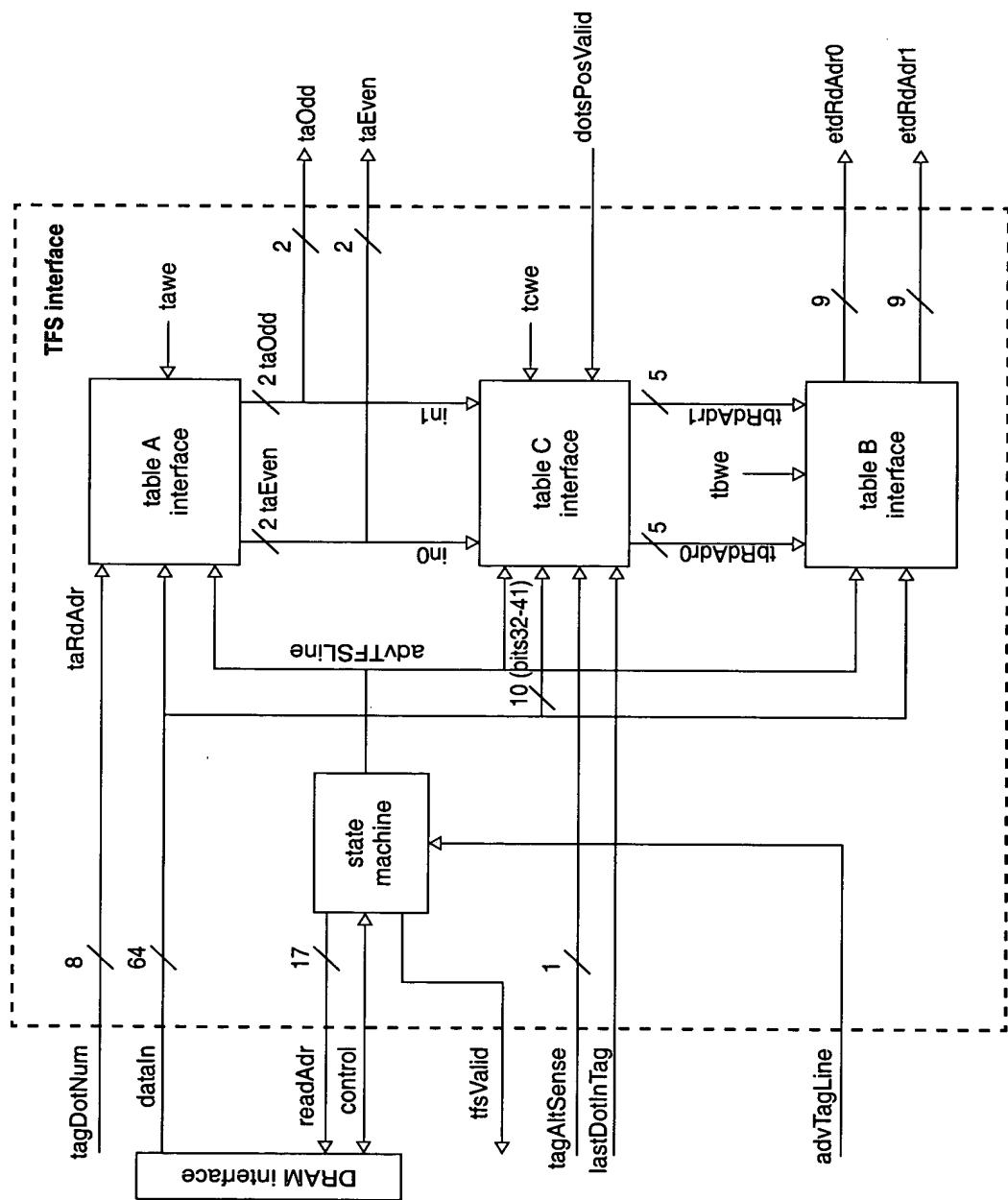


FIG. 223

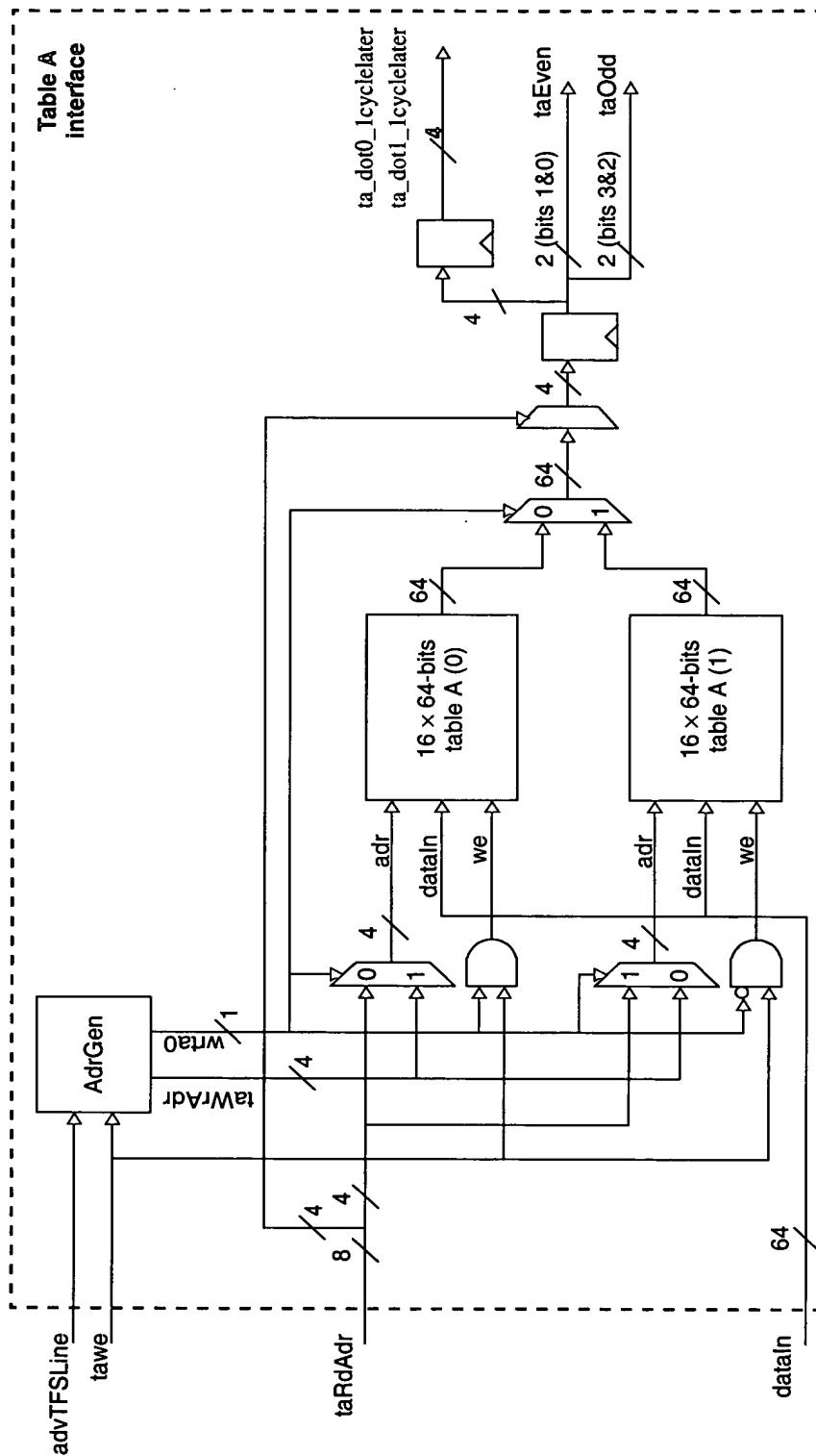


FIG. 224

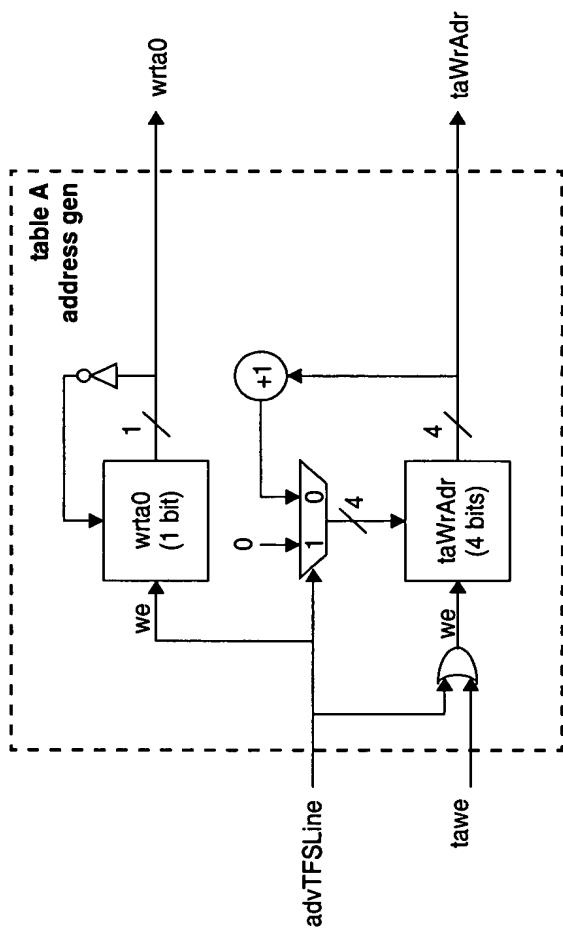


FIG. 225

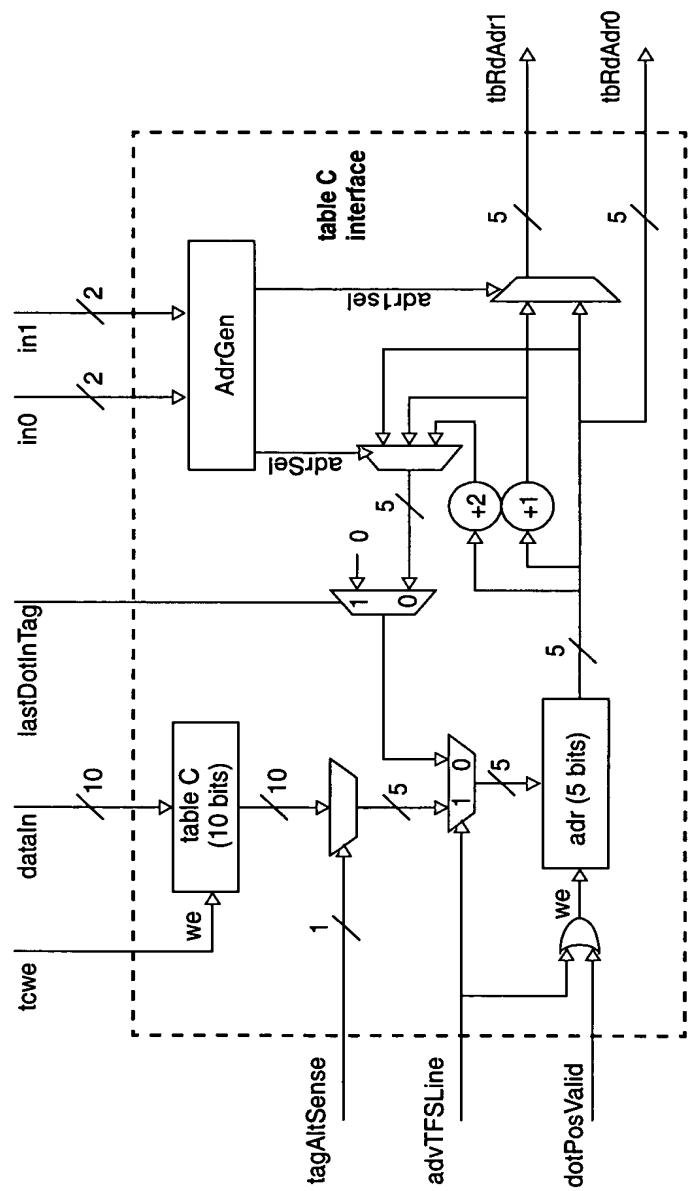


FIG. 226

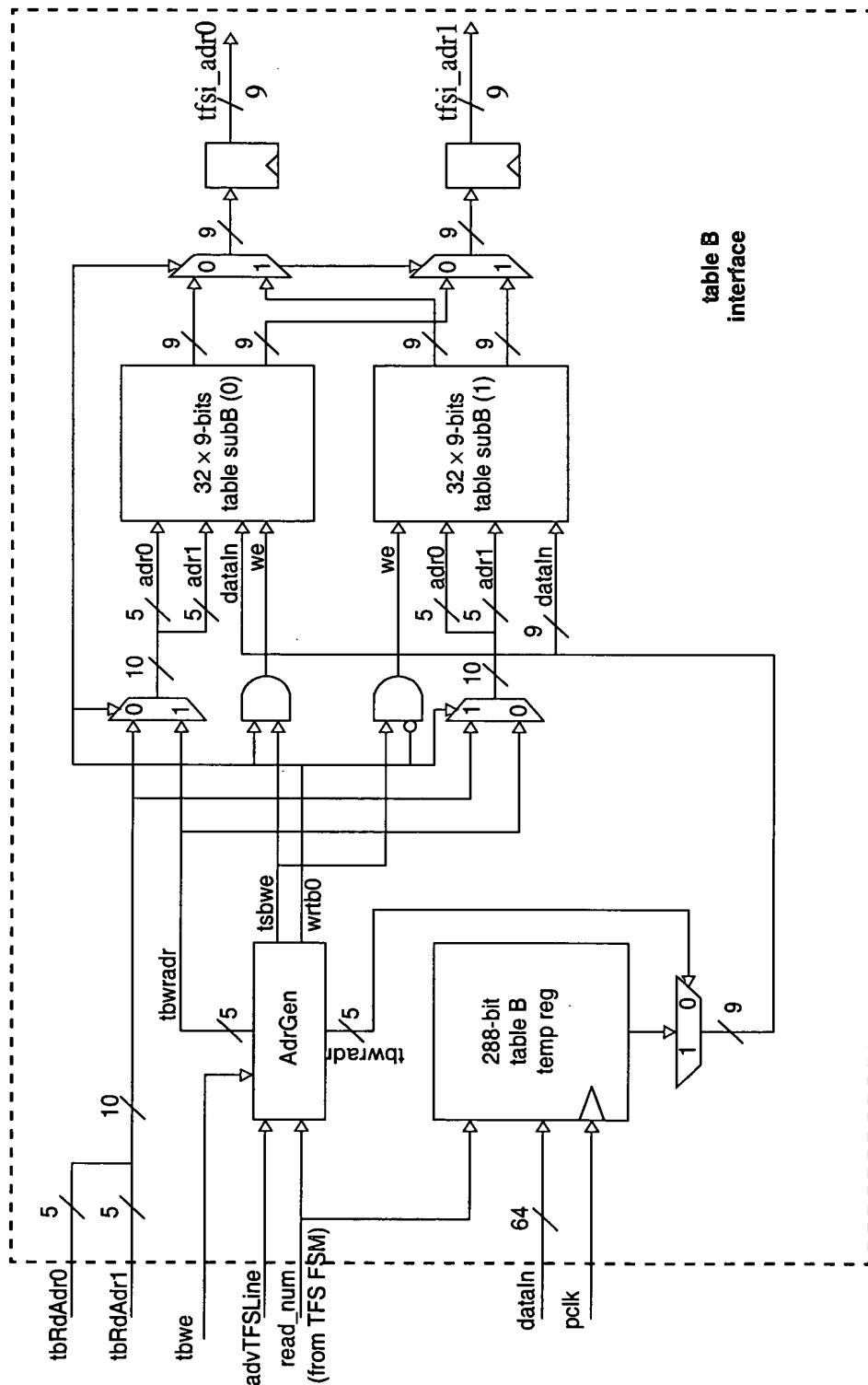


FIG. 227

FIG. 228

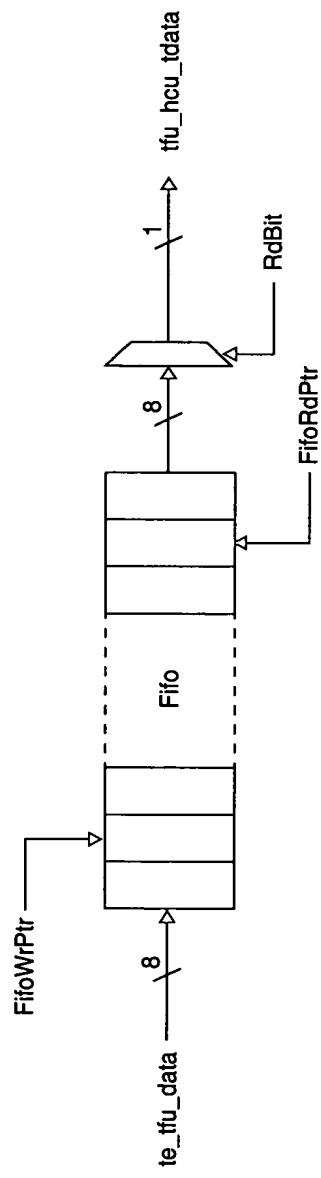
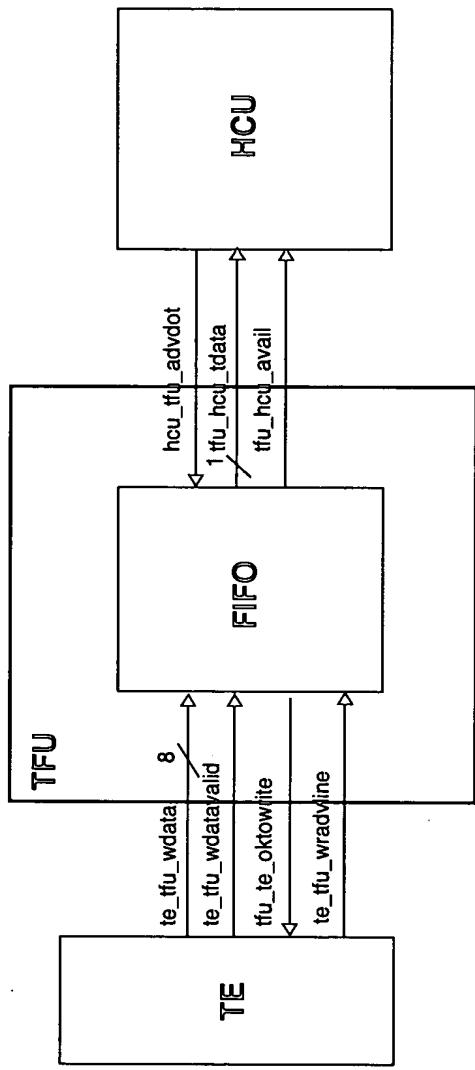


FIG. 229

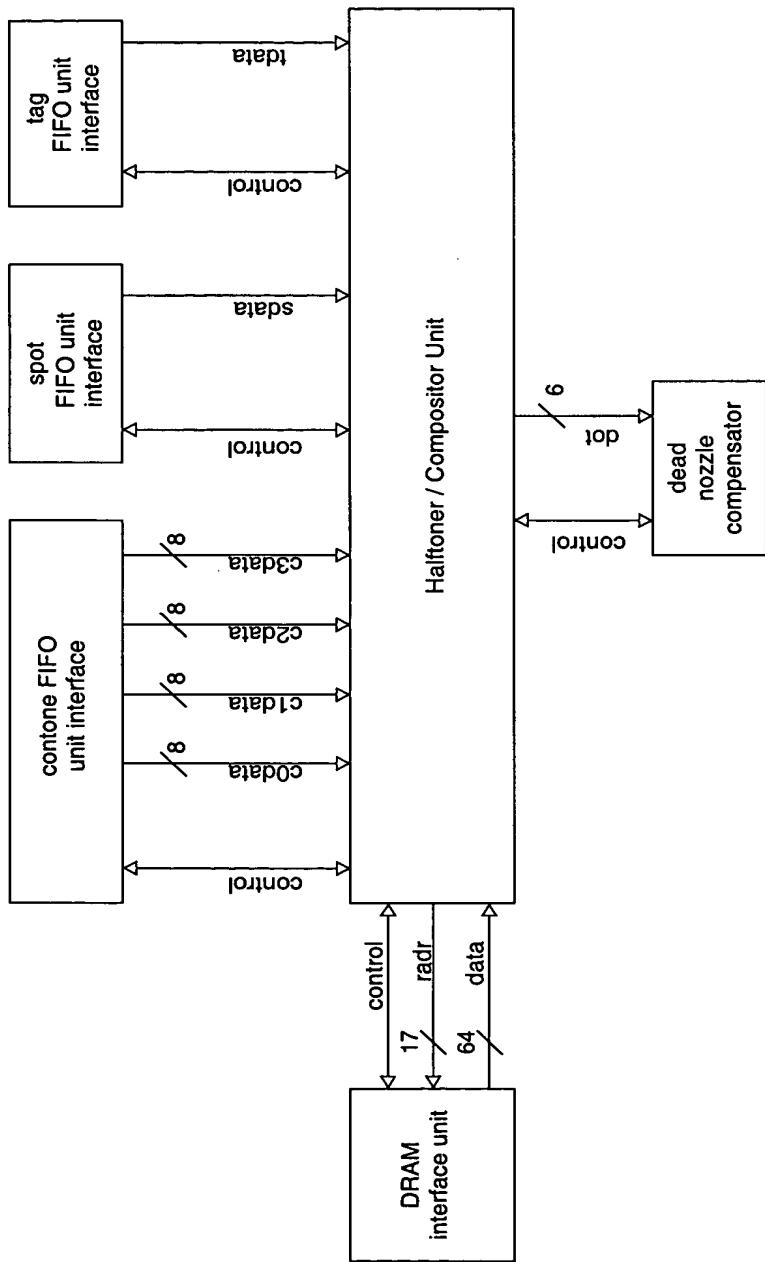


FIG. 230

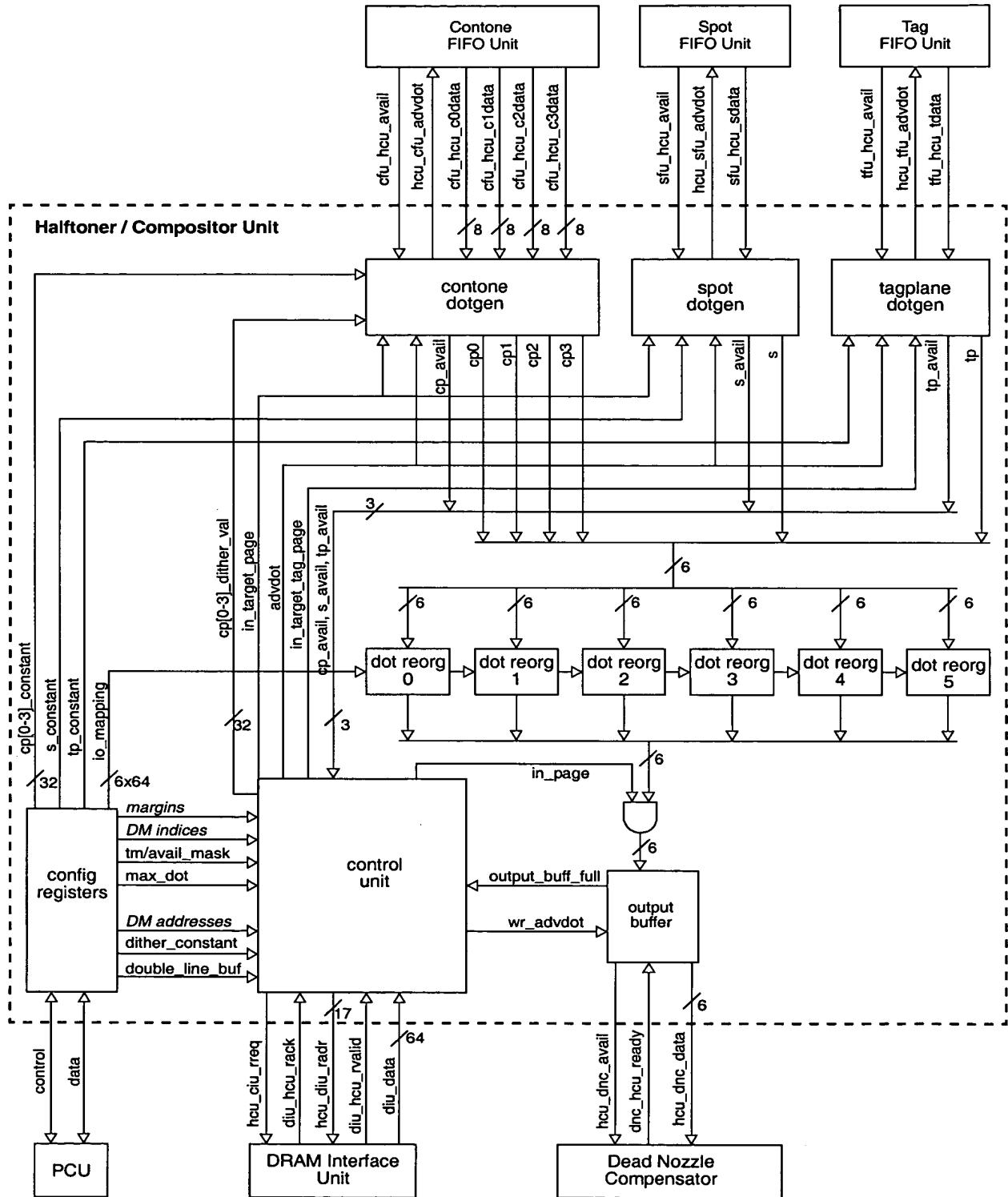


FIG. 231

FIG. 232

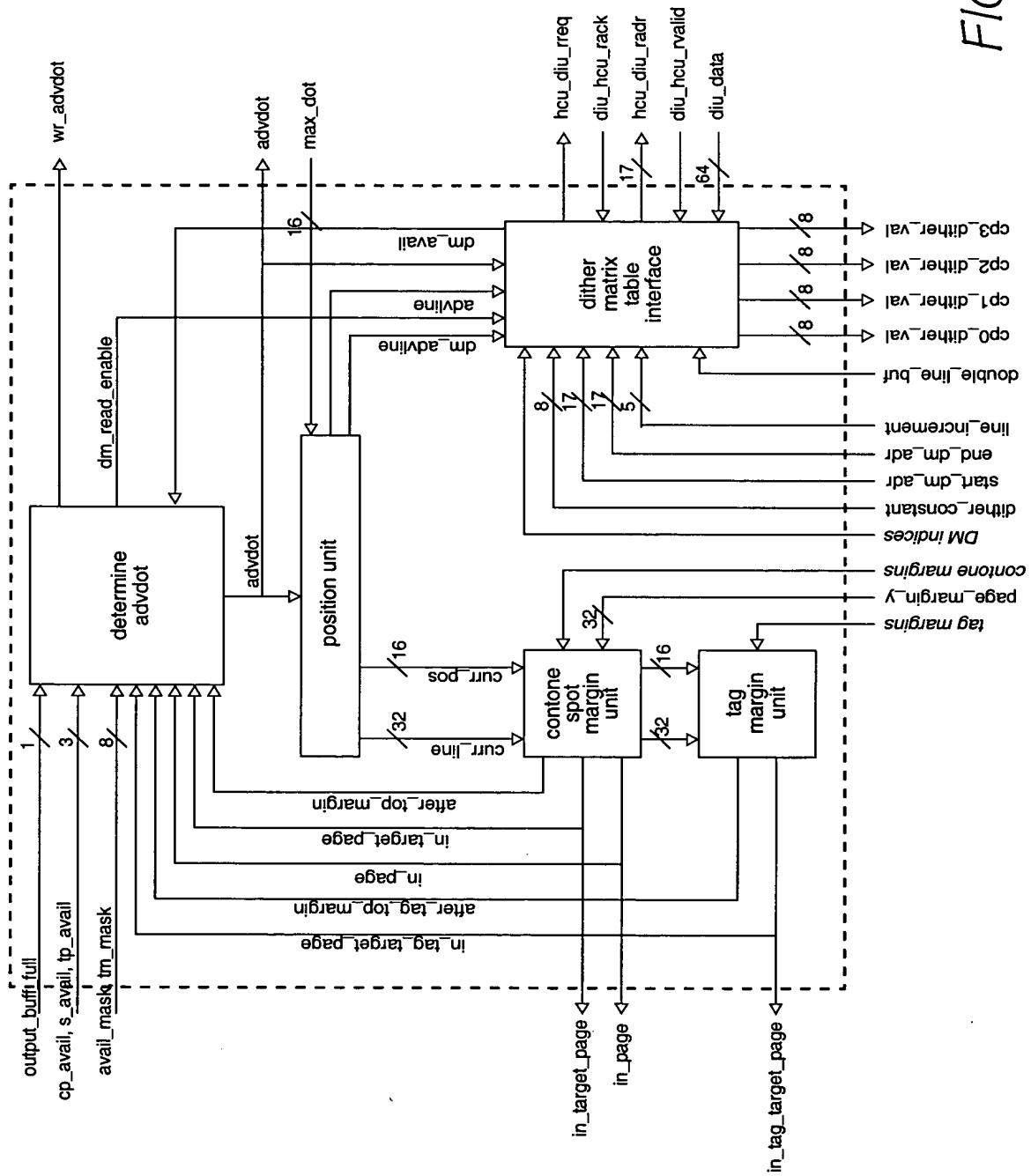
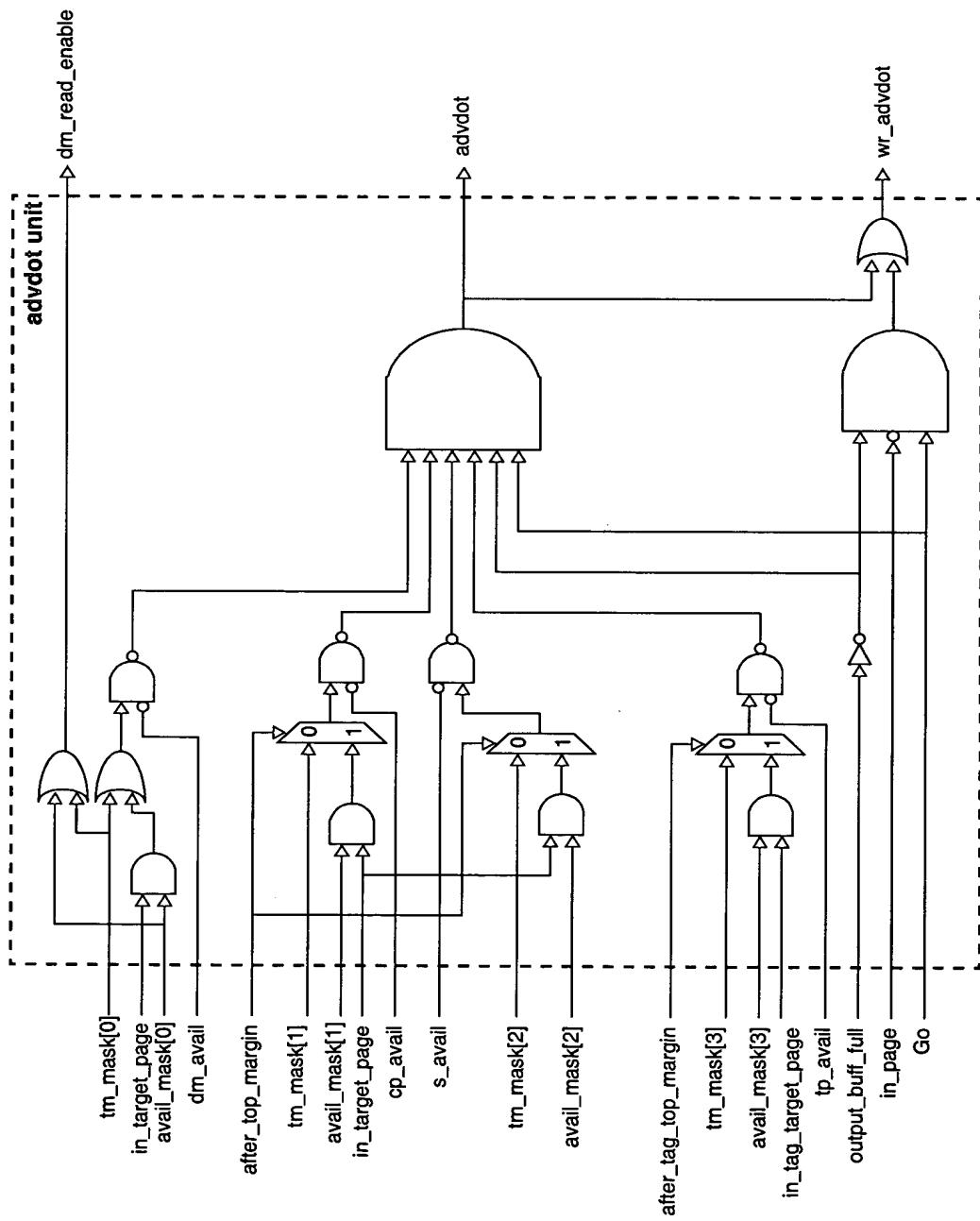


FIG. 233



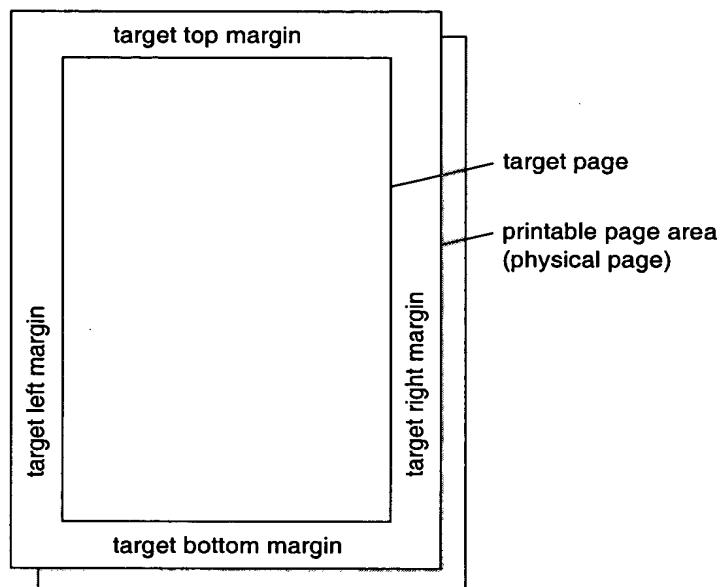


FIG. 234

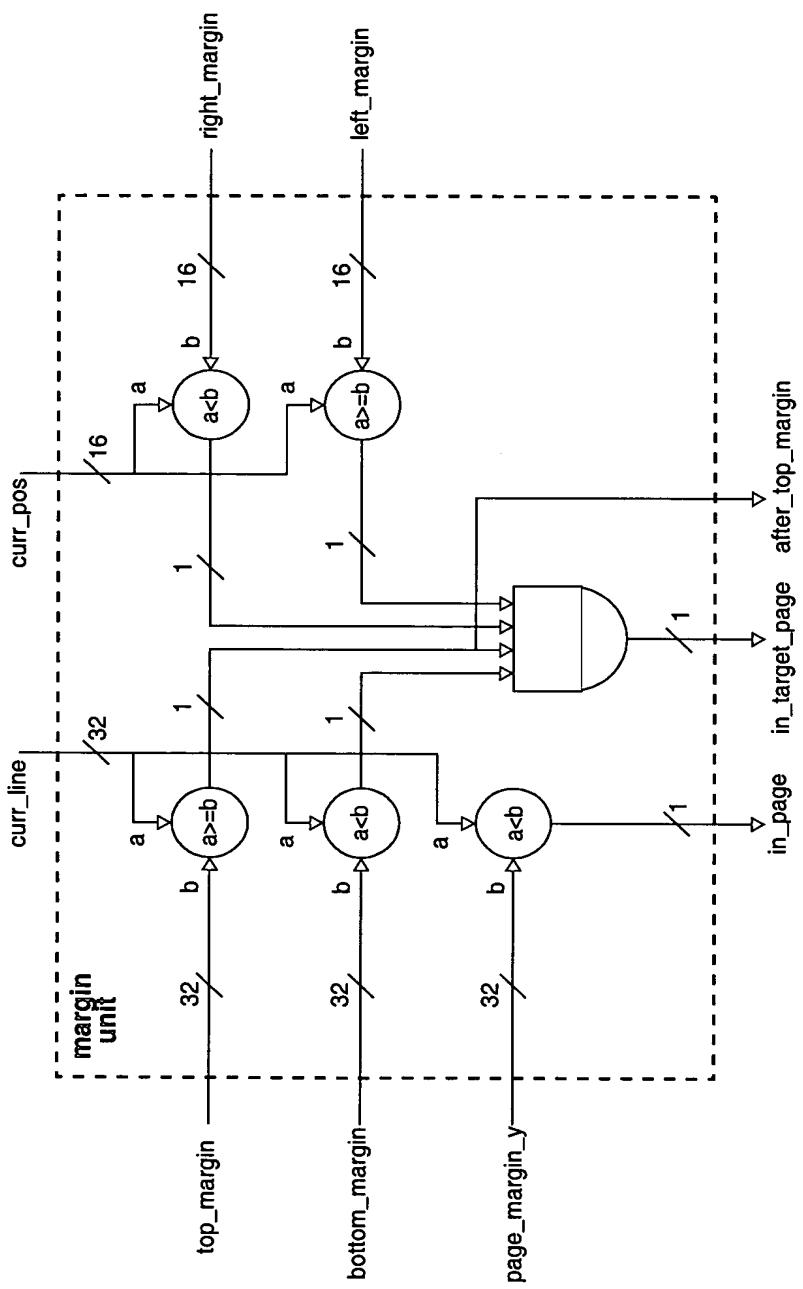
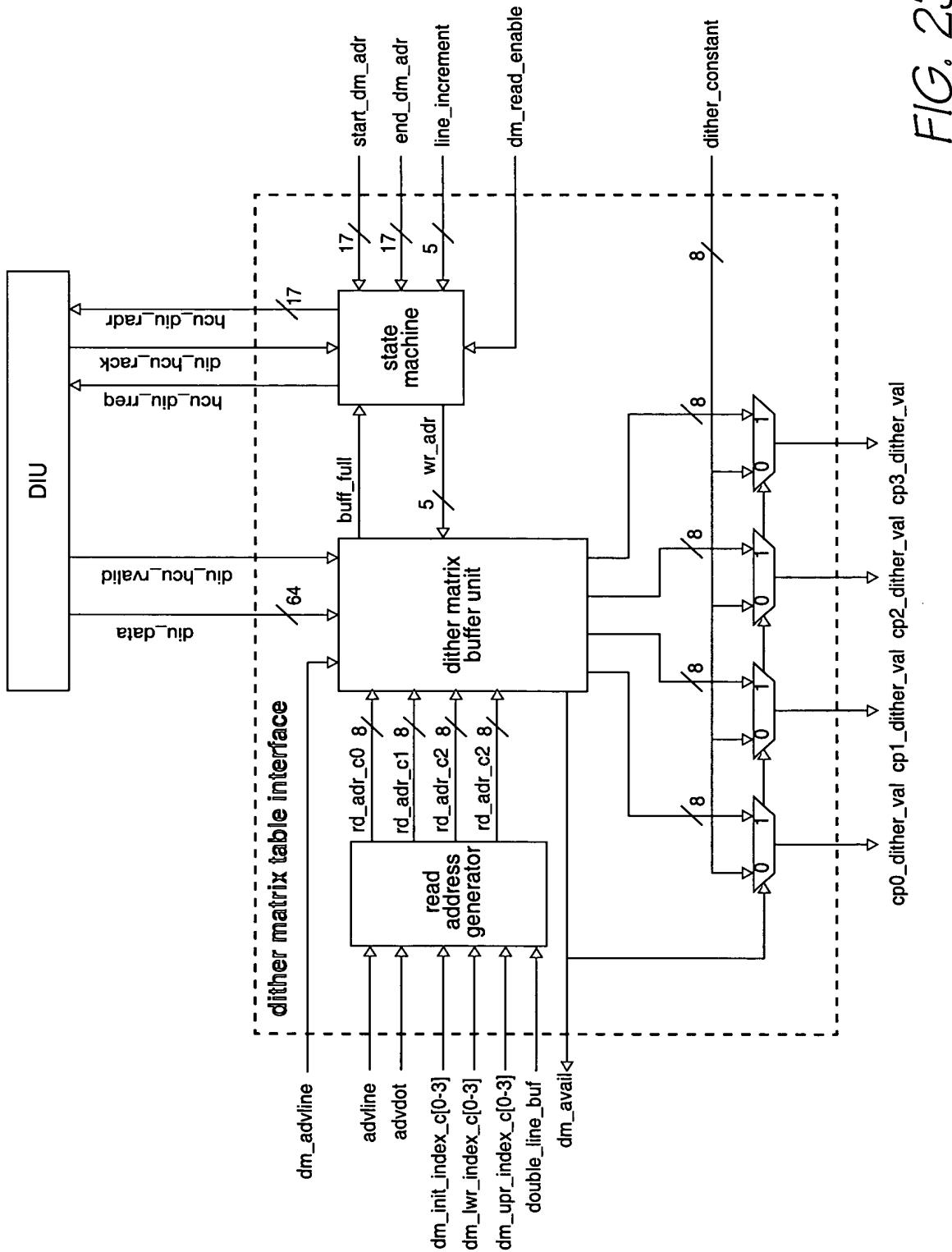


FIG. 235



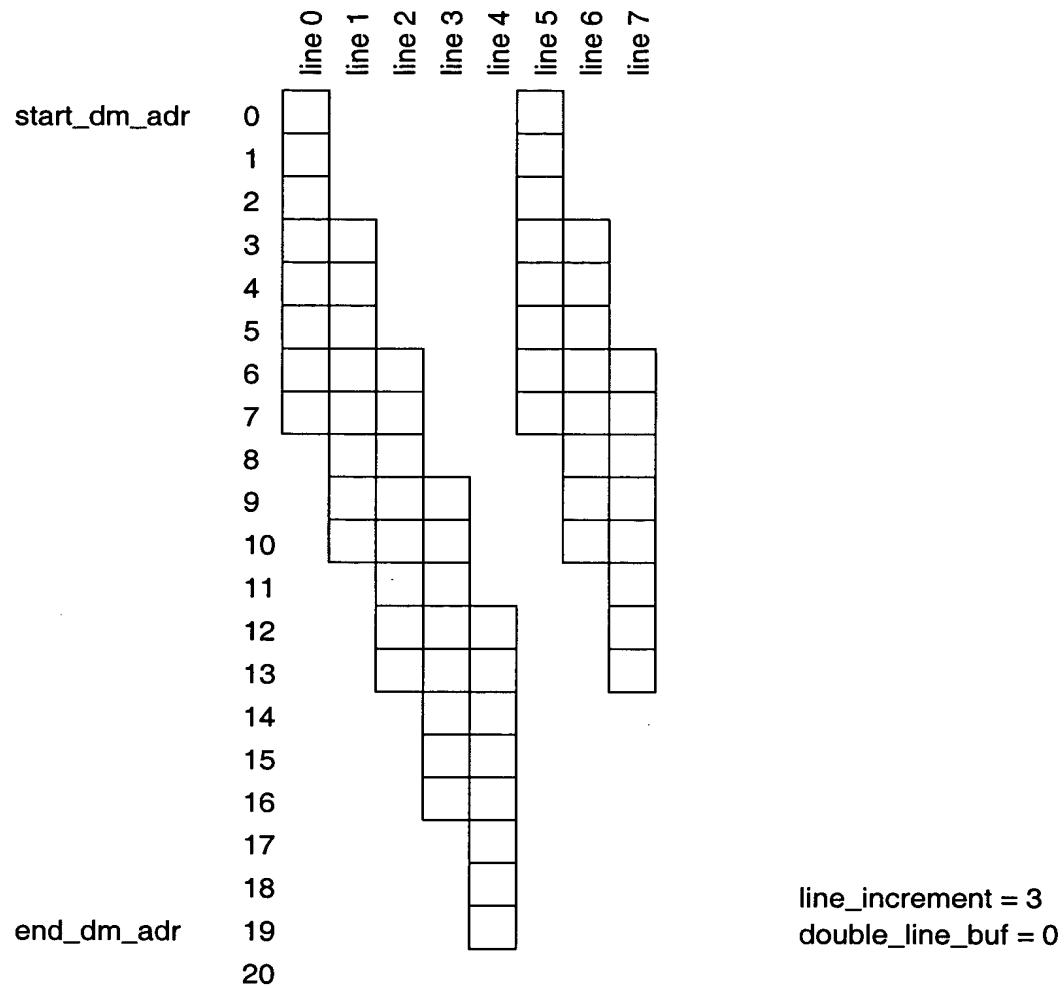


FIG. 237

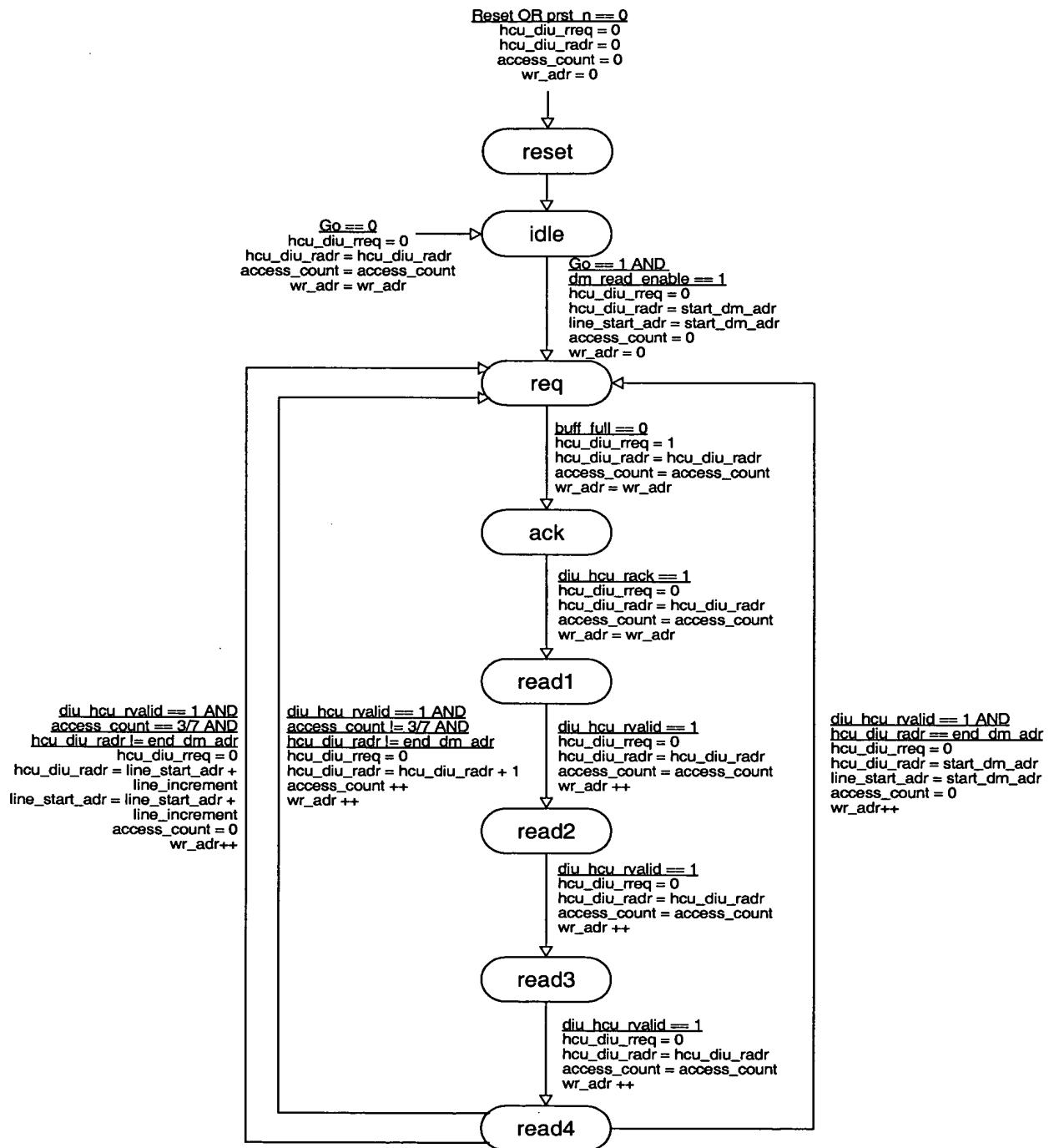
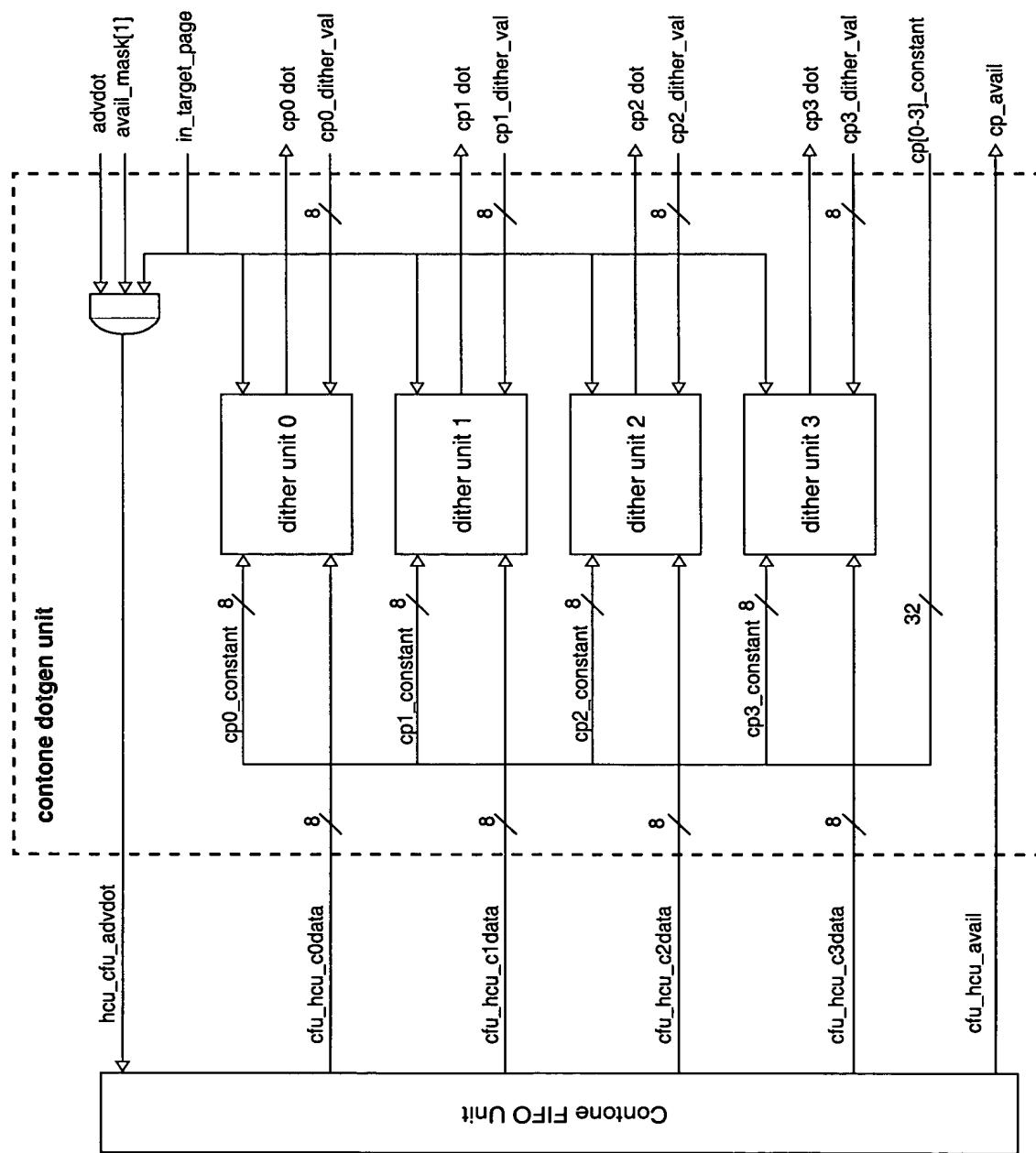


FIG. 238

FIG. 239



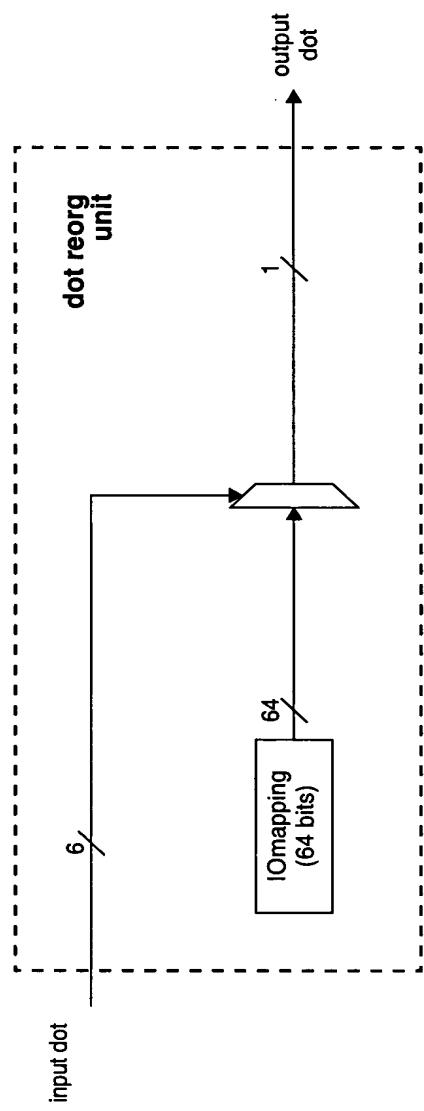


FIG. 240

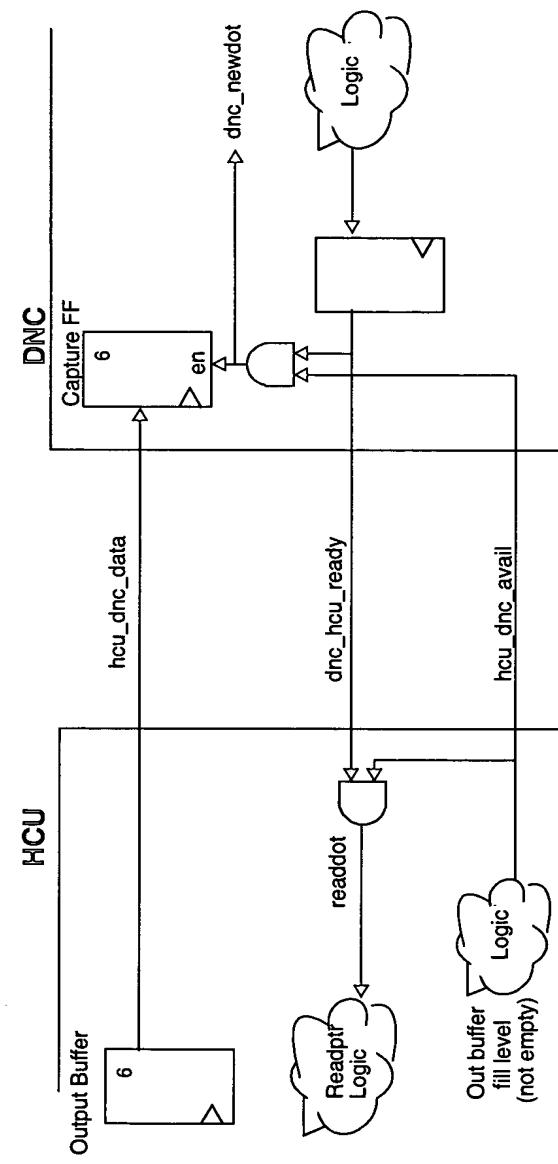
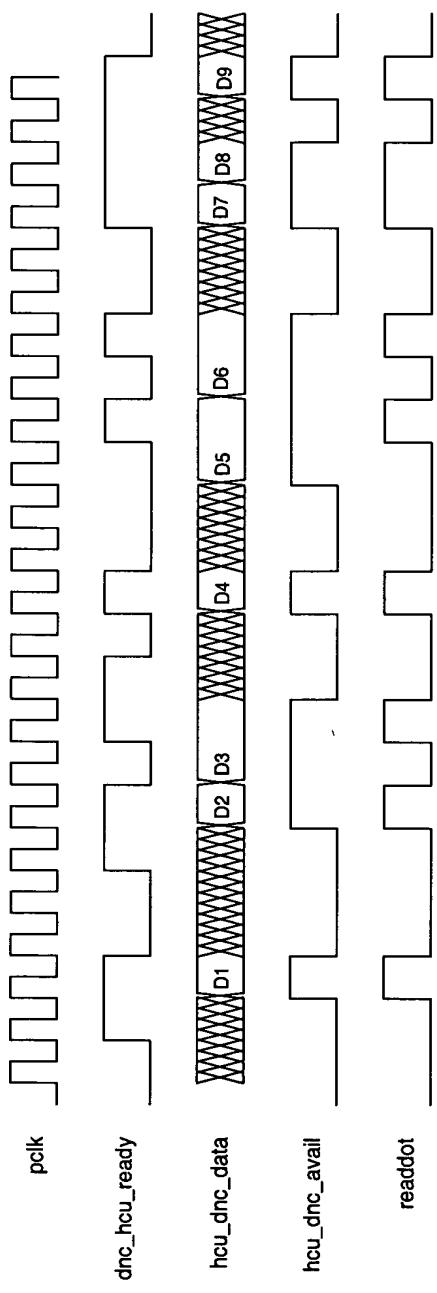


FIG. 241

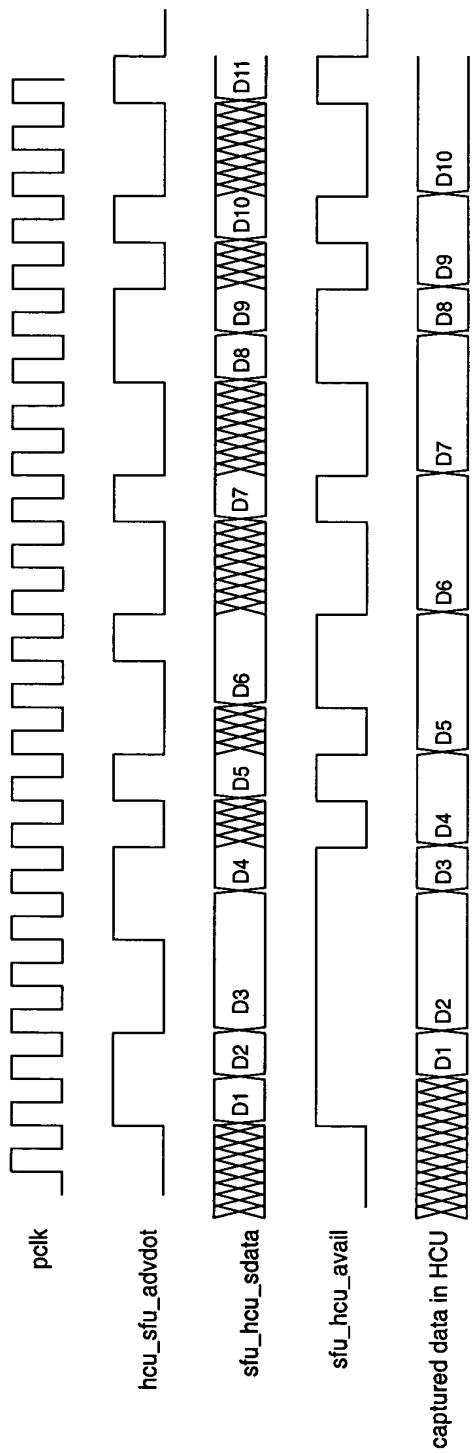


FIG. 242

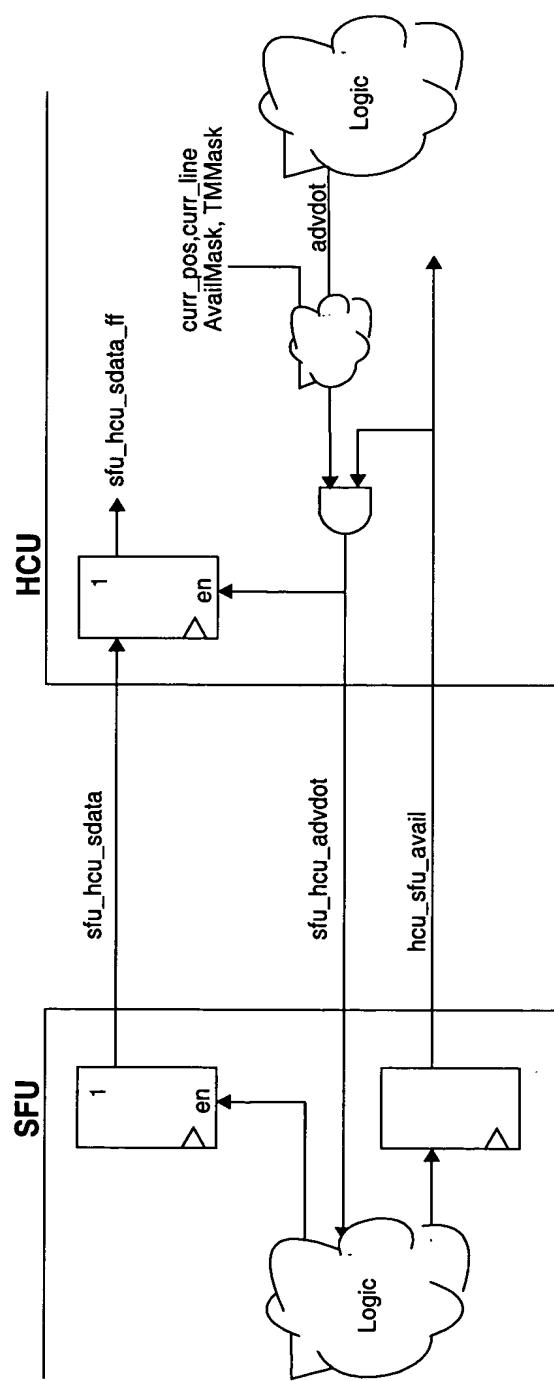


FIG. 243

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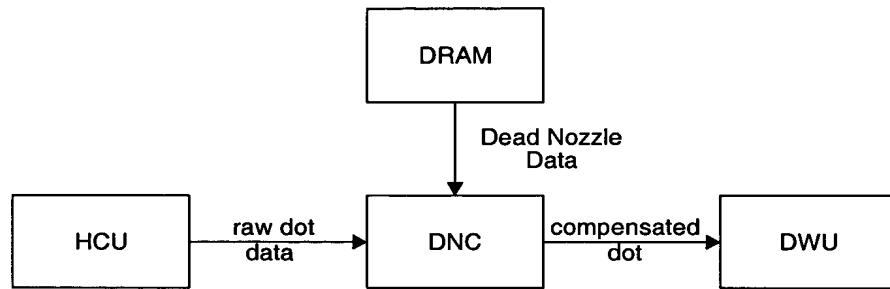


FIG. 244

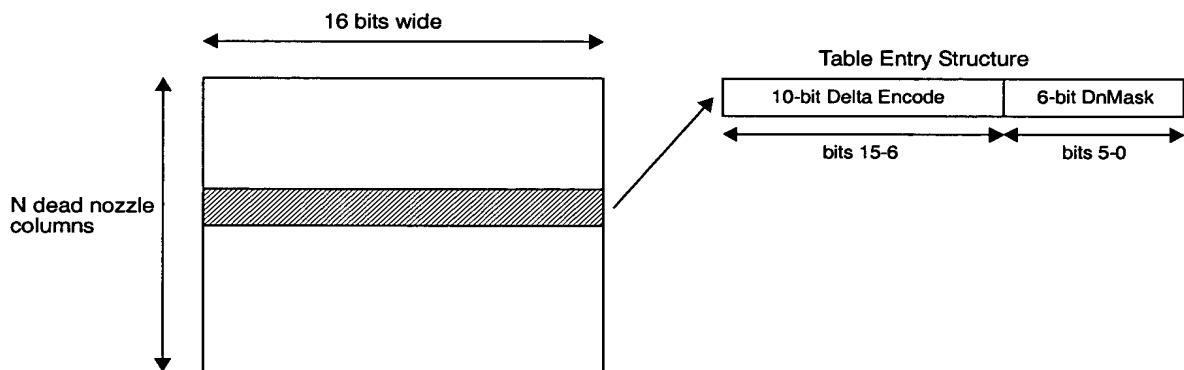


FIG. 245

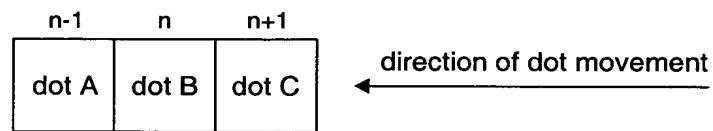


FIG. 246

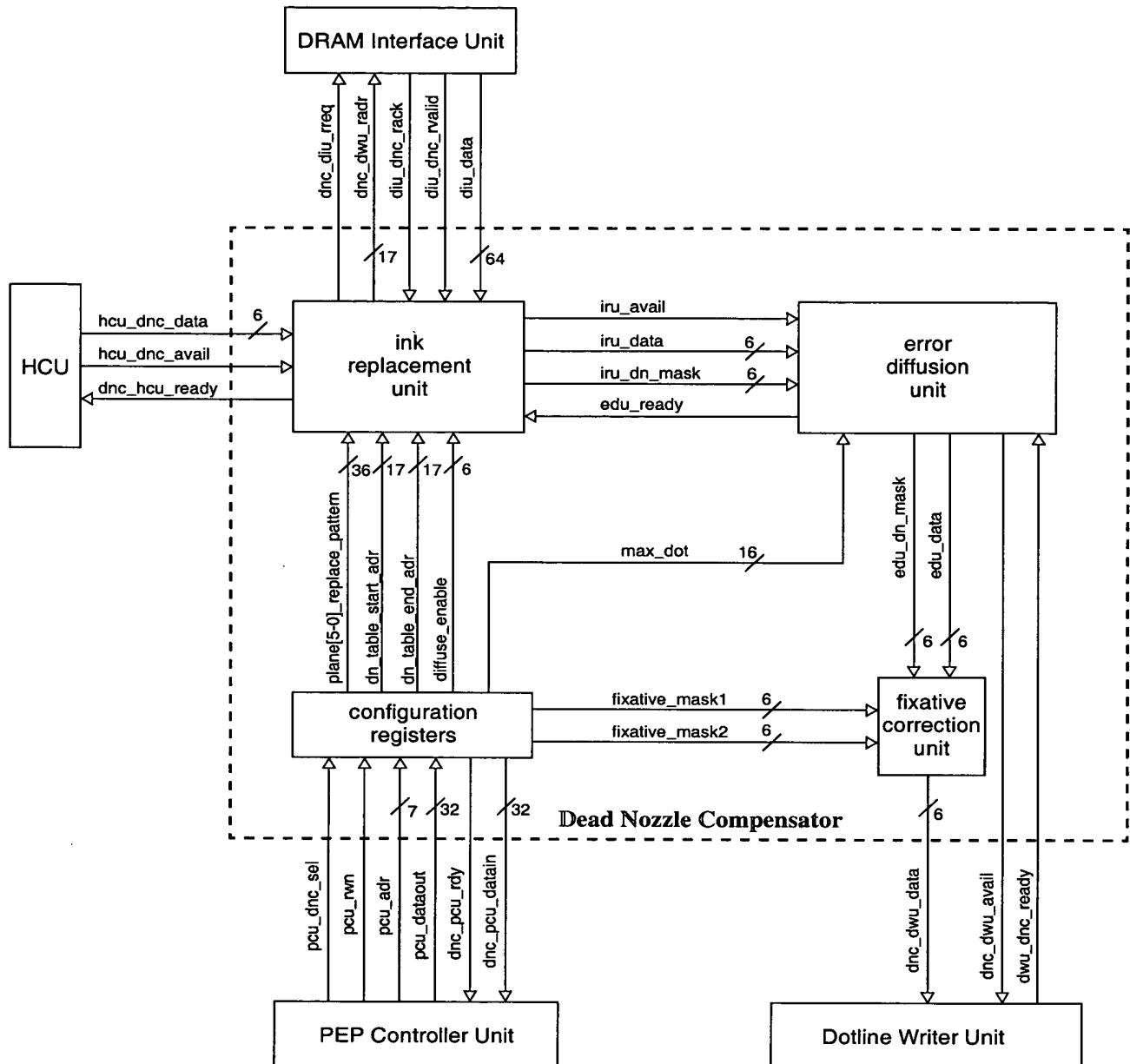


FIG. 247

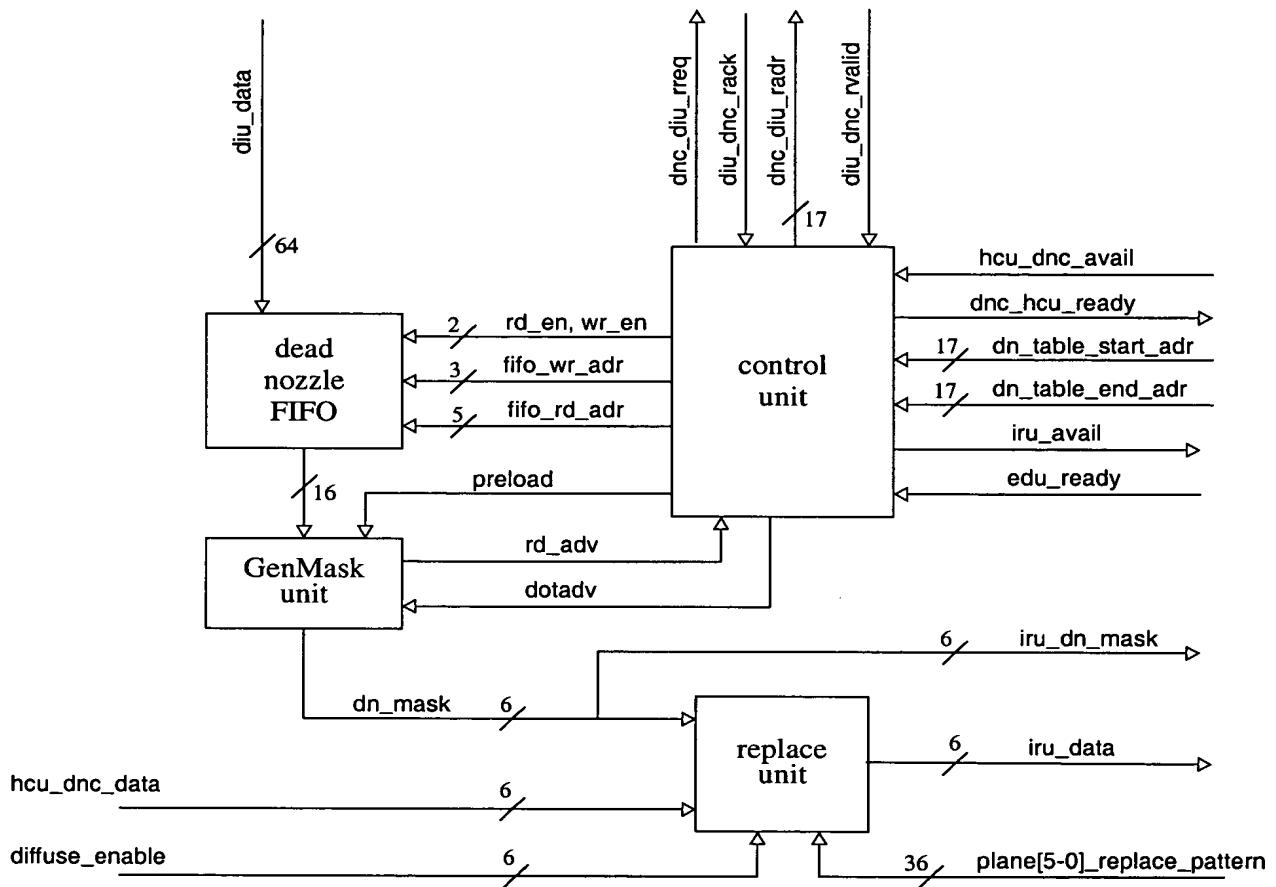


FIG. 248

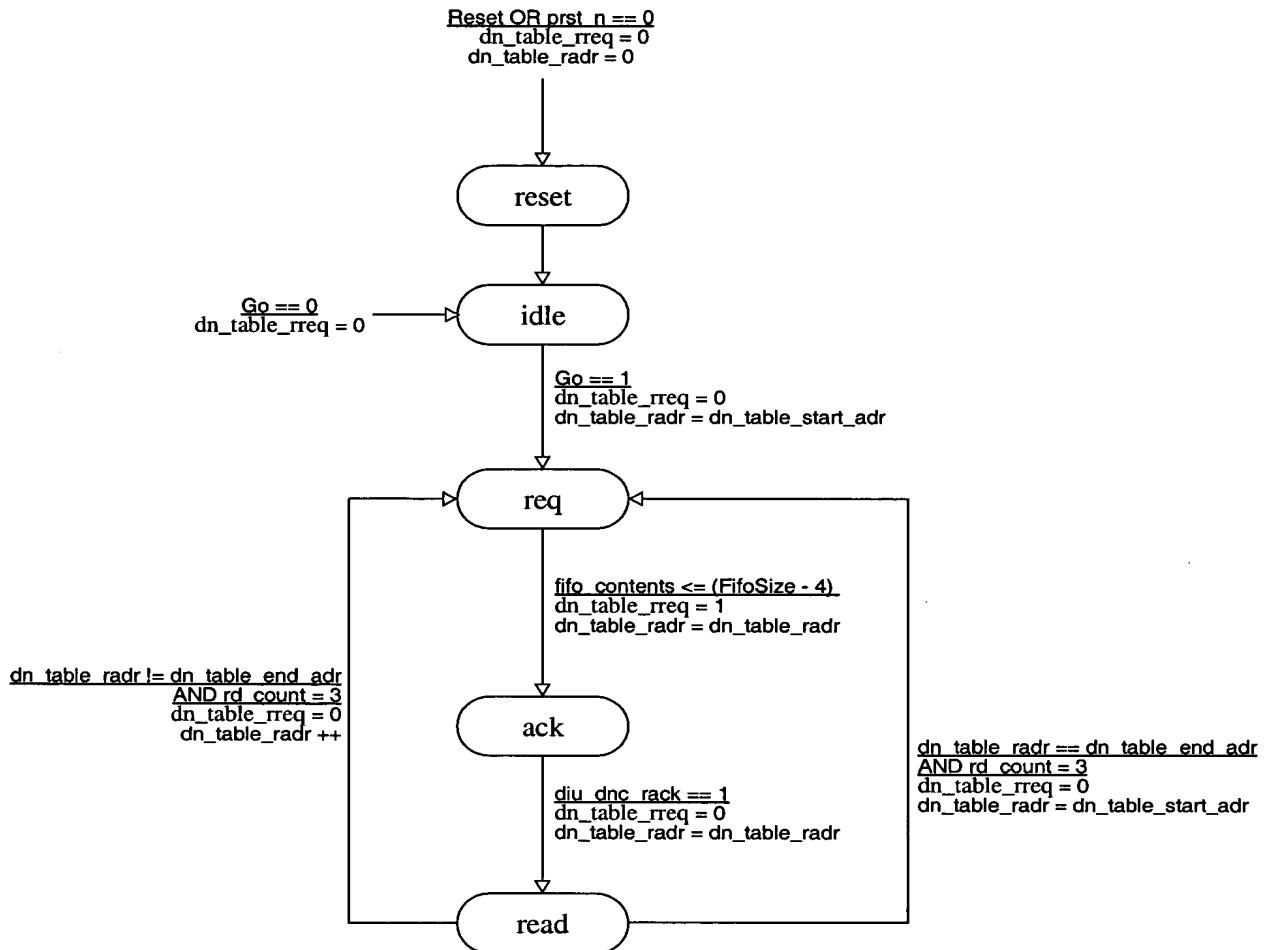


FIG. 249

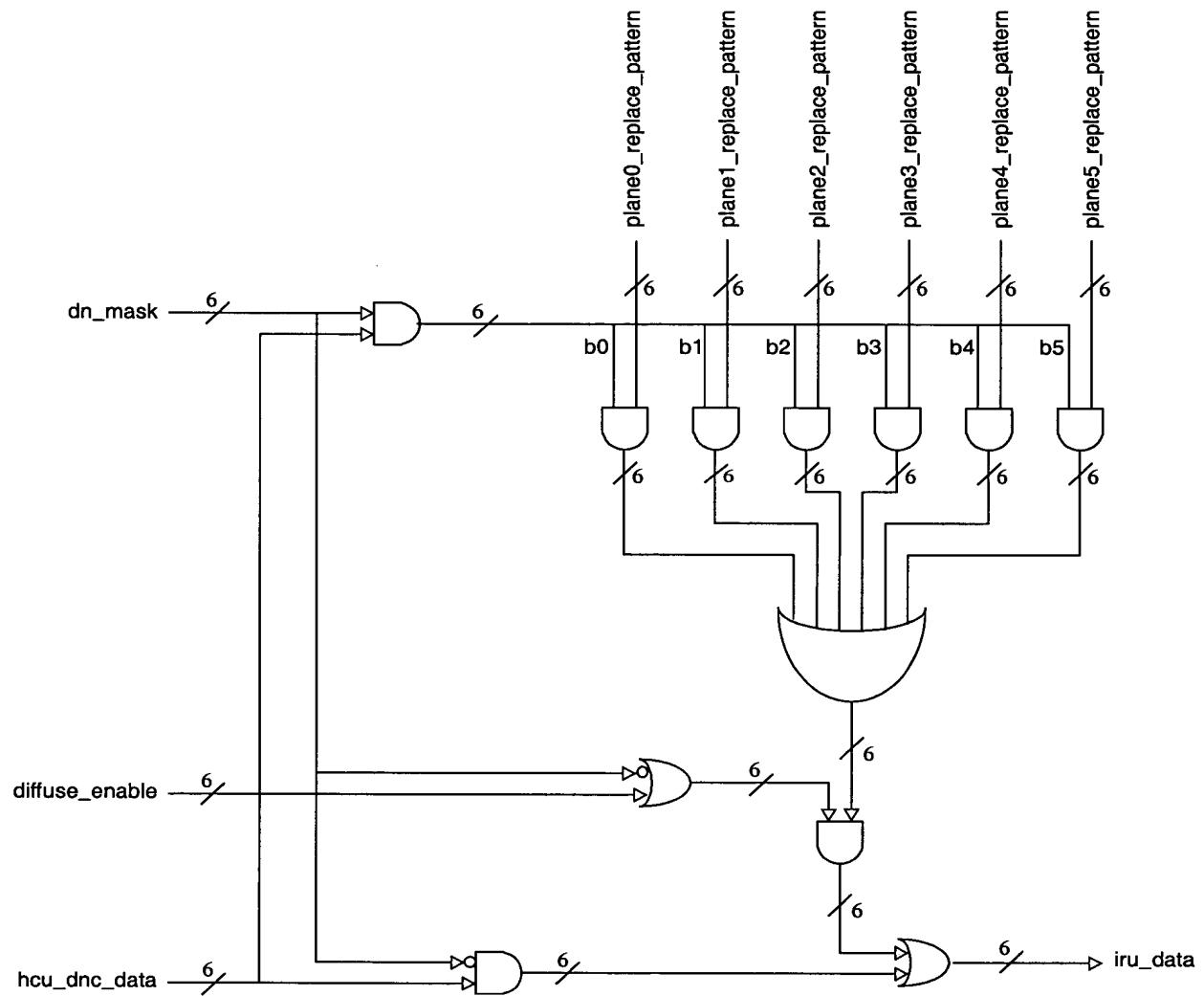


FIG. 250

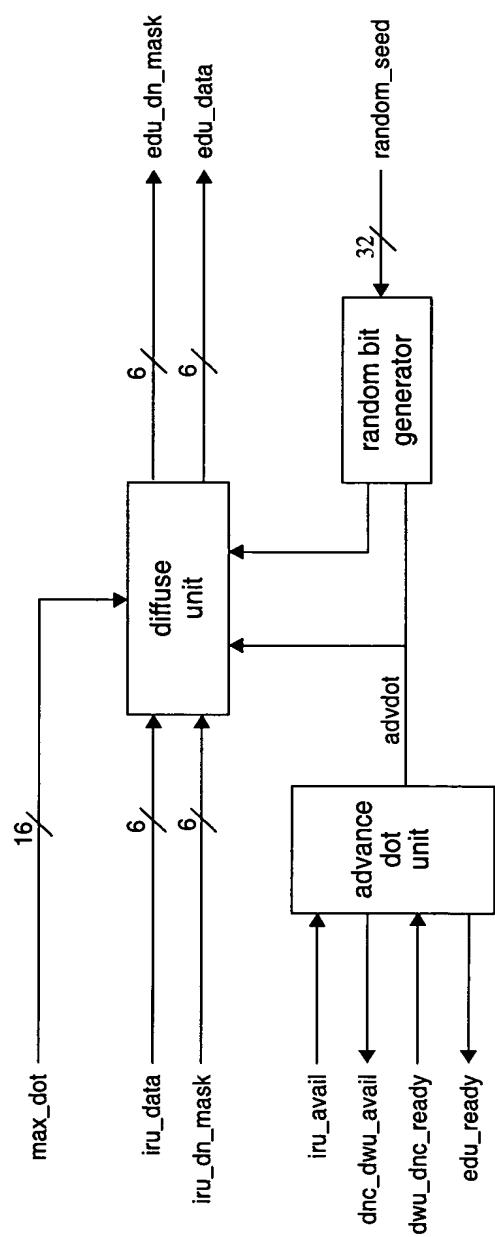


FIG. 251

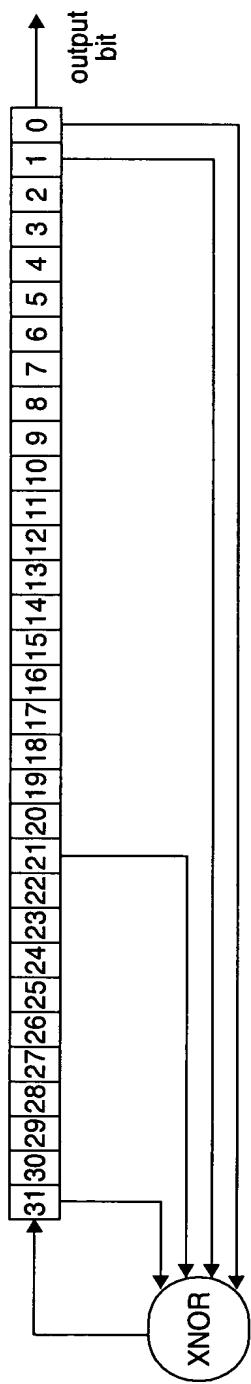
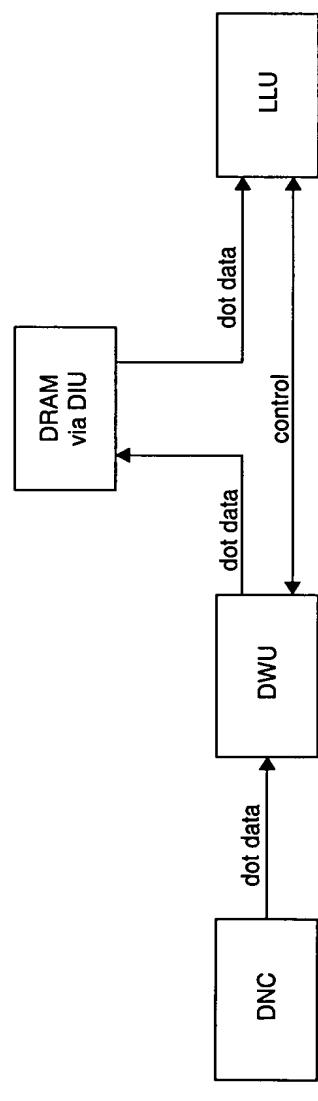
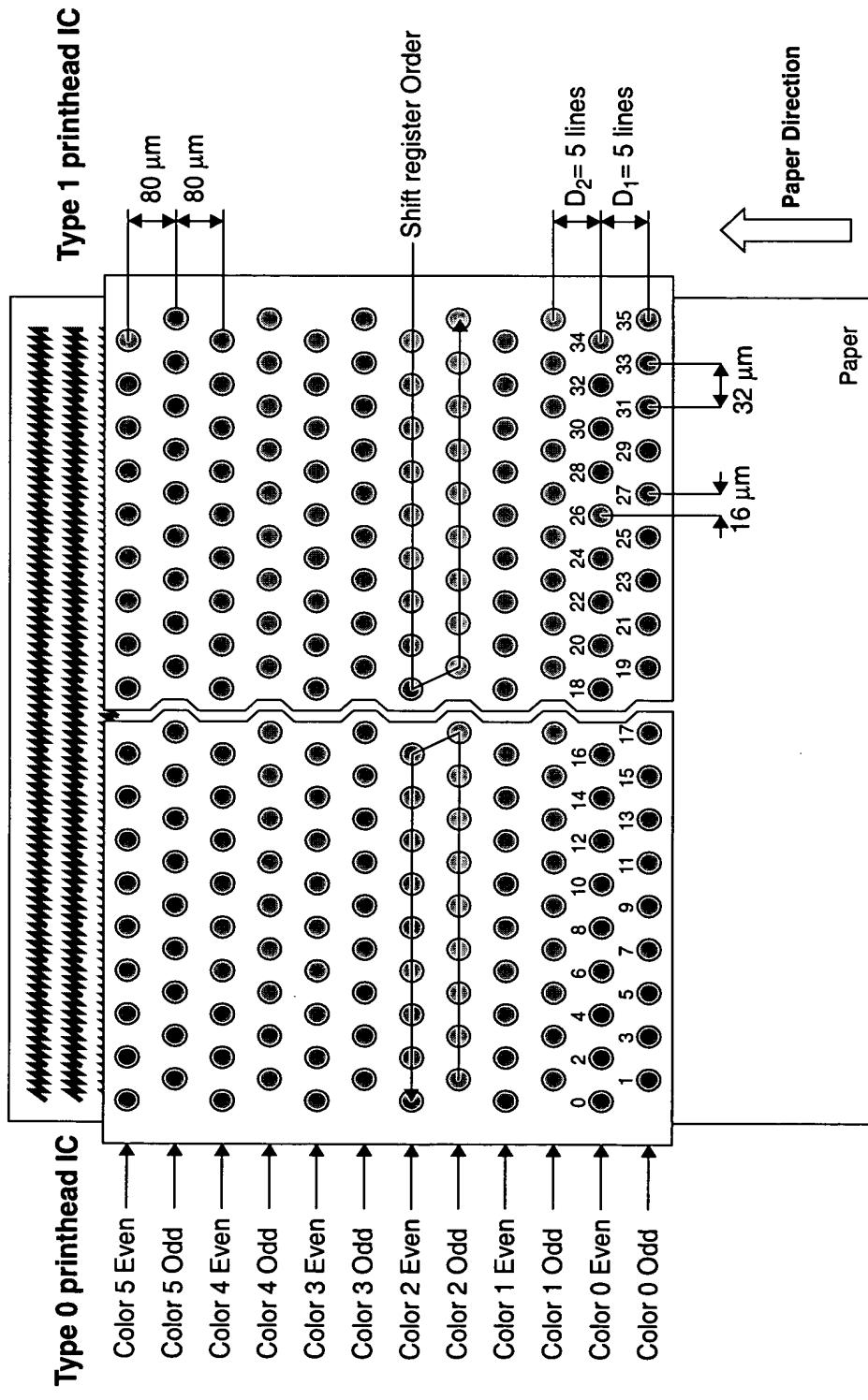


FIG. 252





Note: Paper passes under printhead

FIG. 254

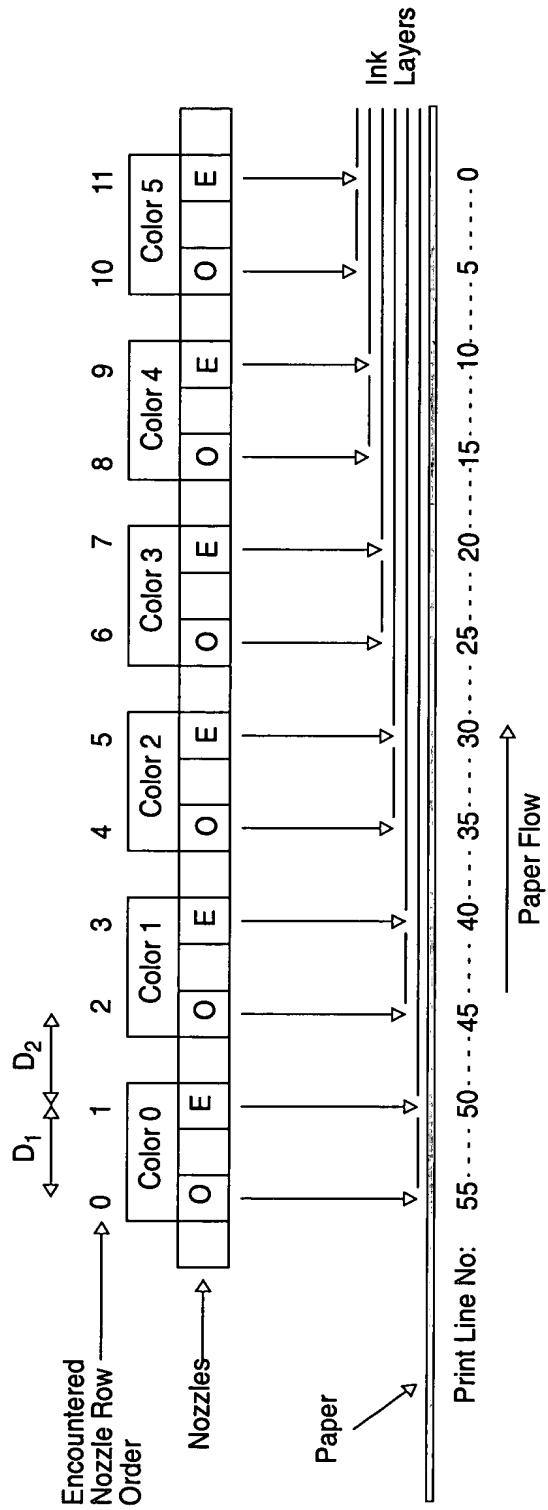
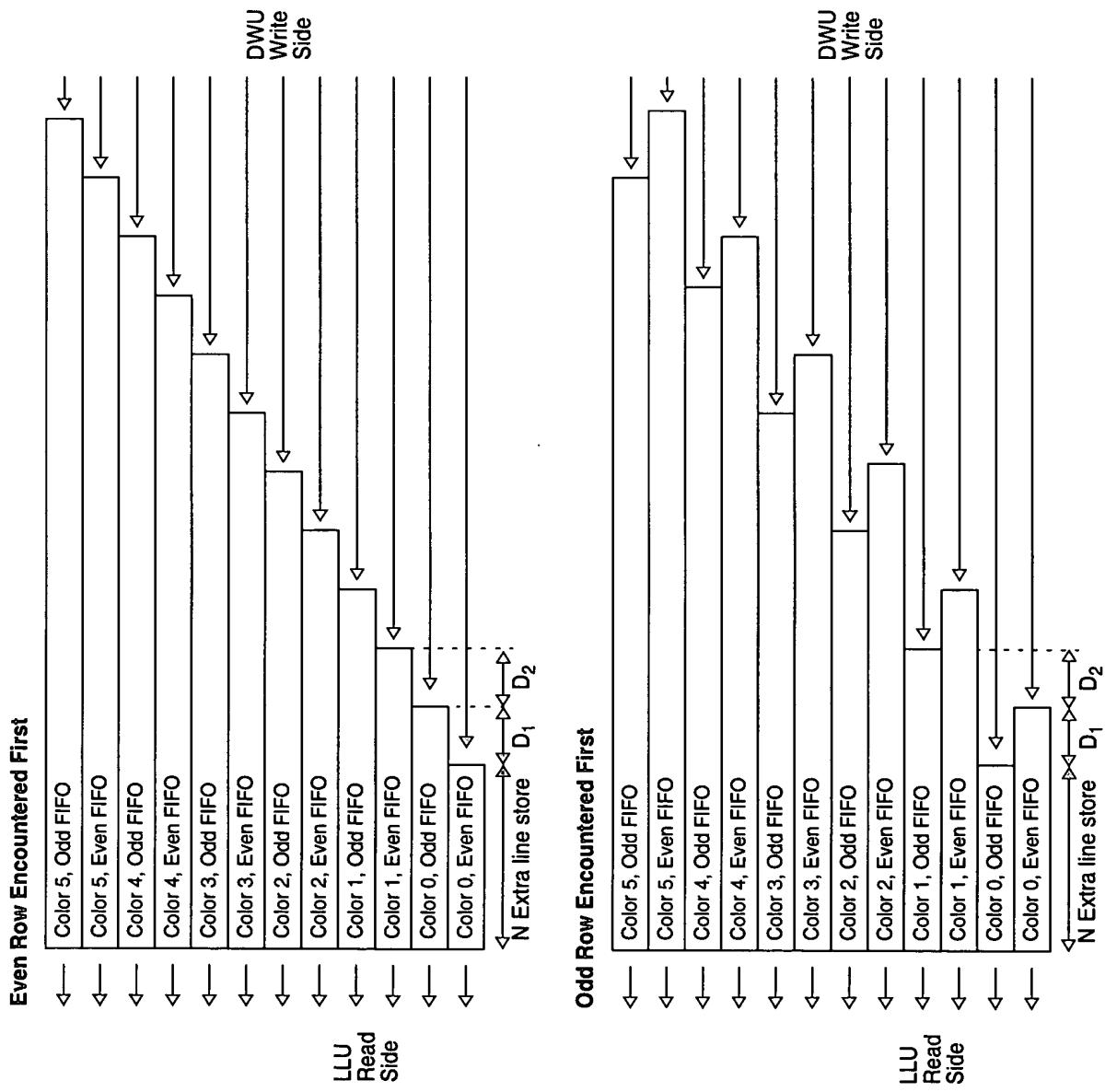


FIG. 255

FIG. 256



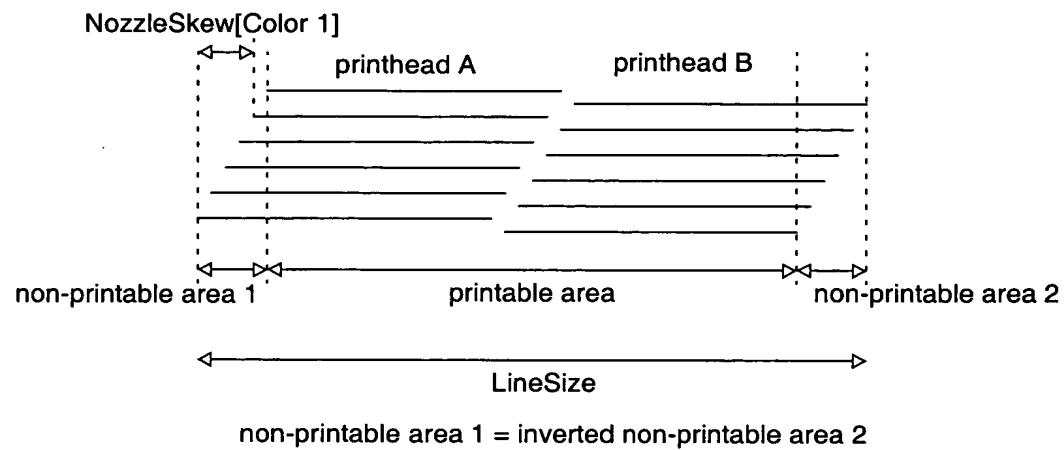


FIG. 257

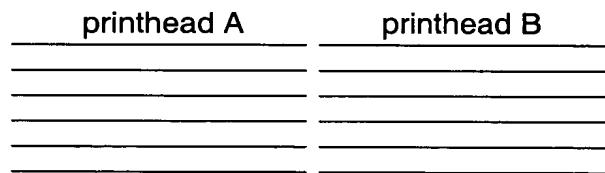


FIG. 258

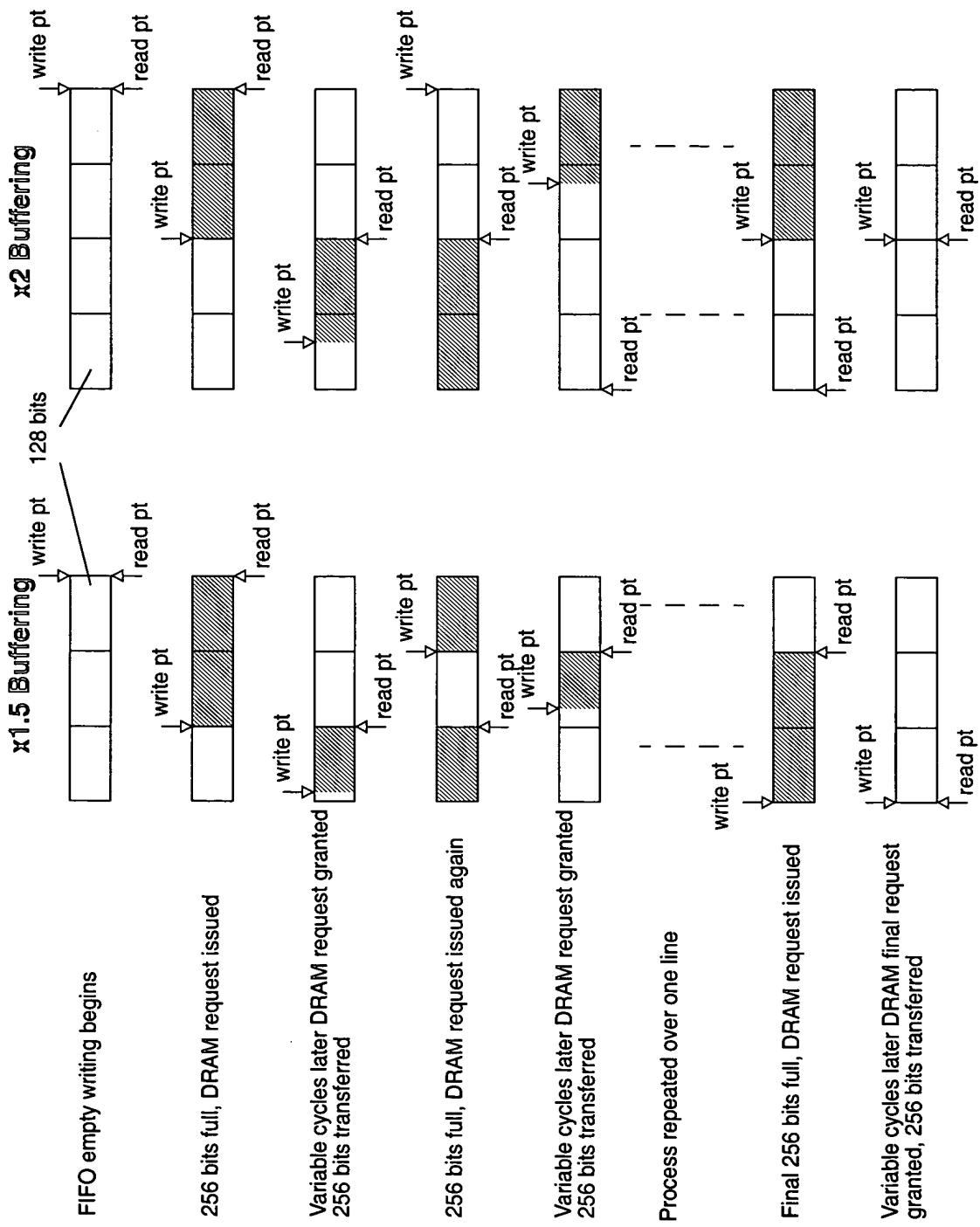


FIG. 259

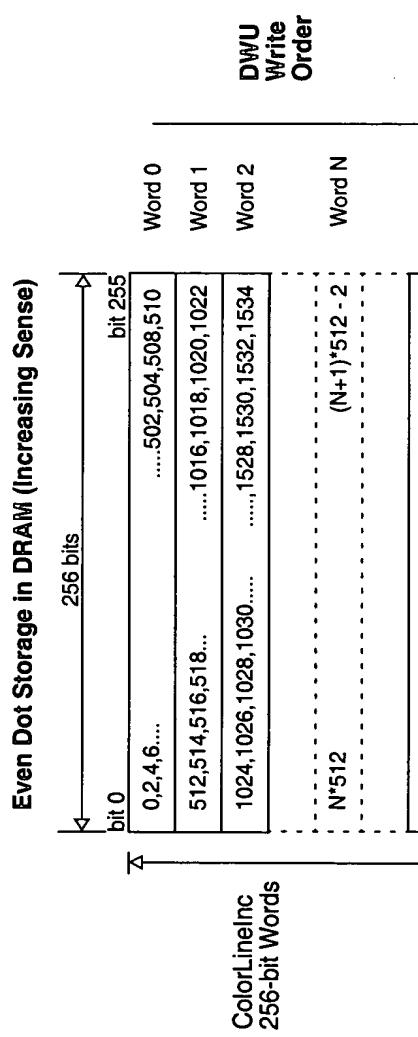


FIG. 260

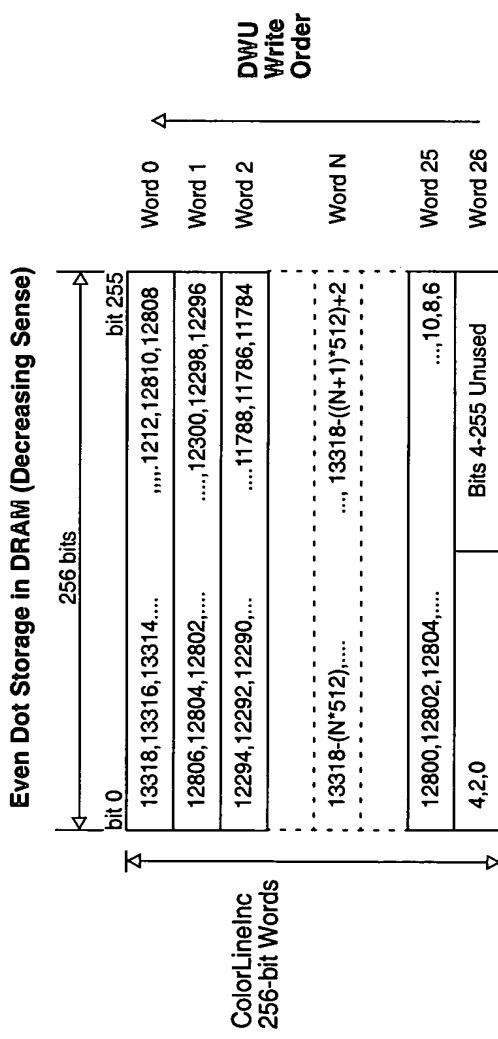


FIG. 261

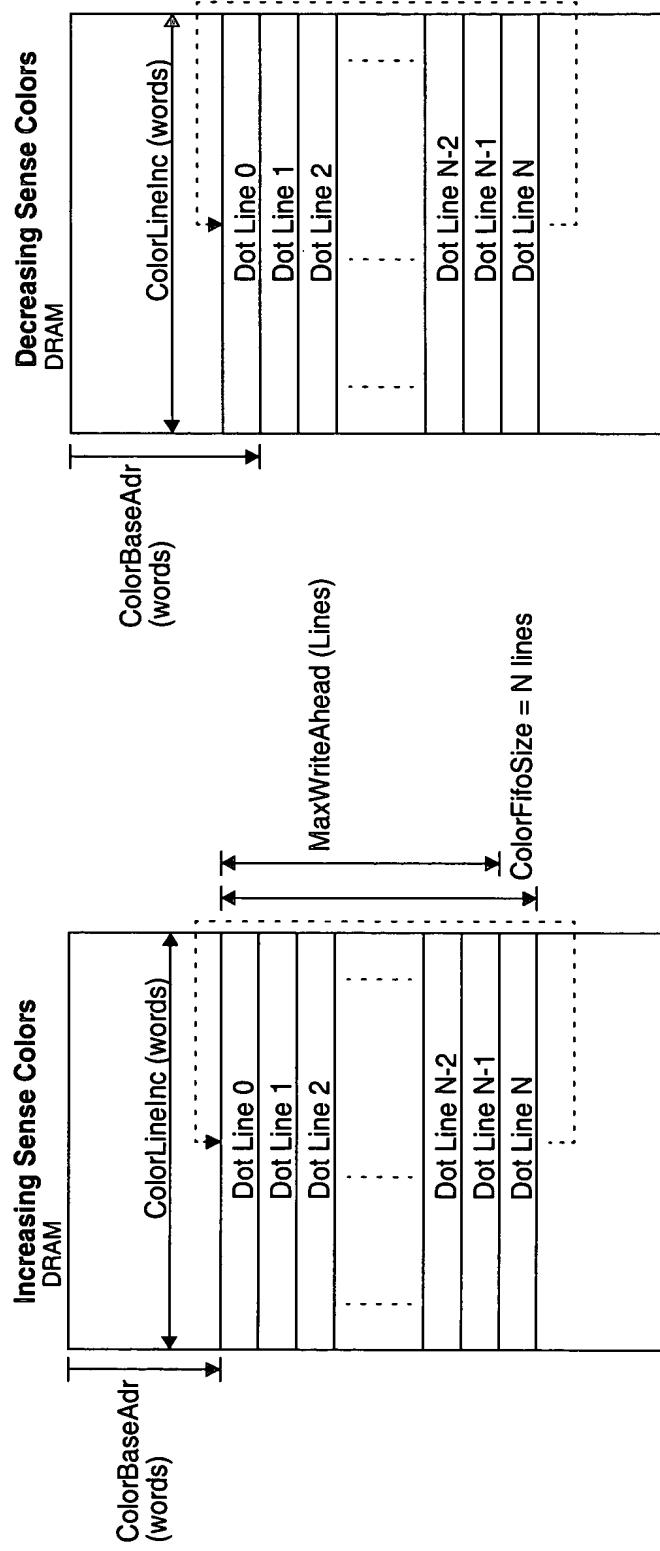


FIG. 262

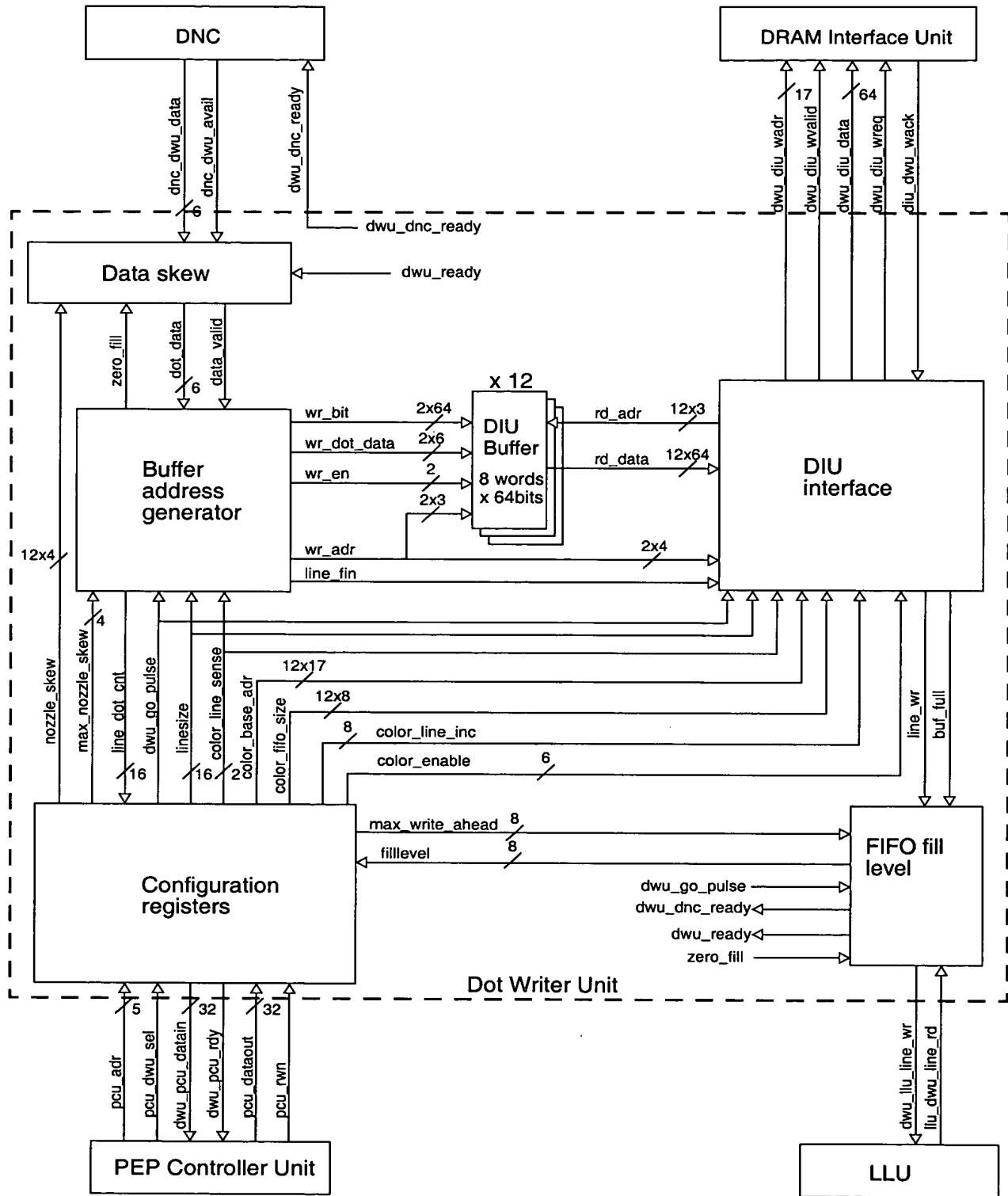


FIG. 263

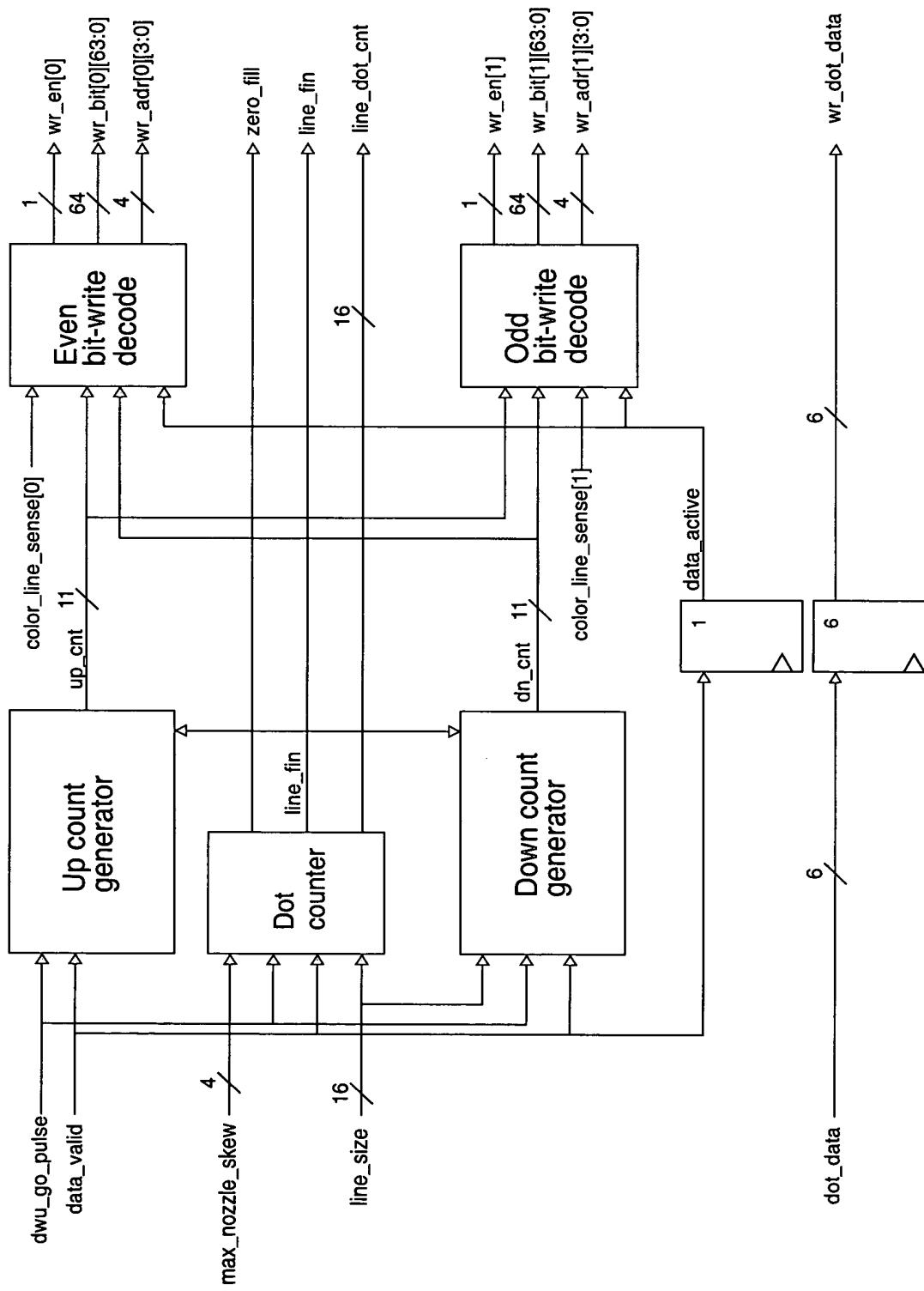


FIG. 264

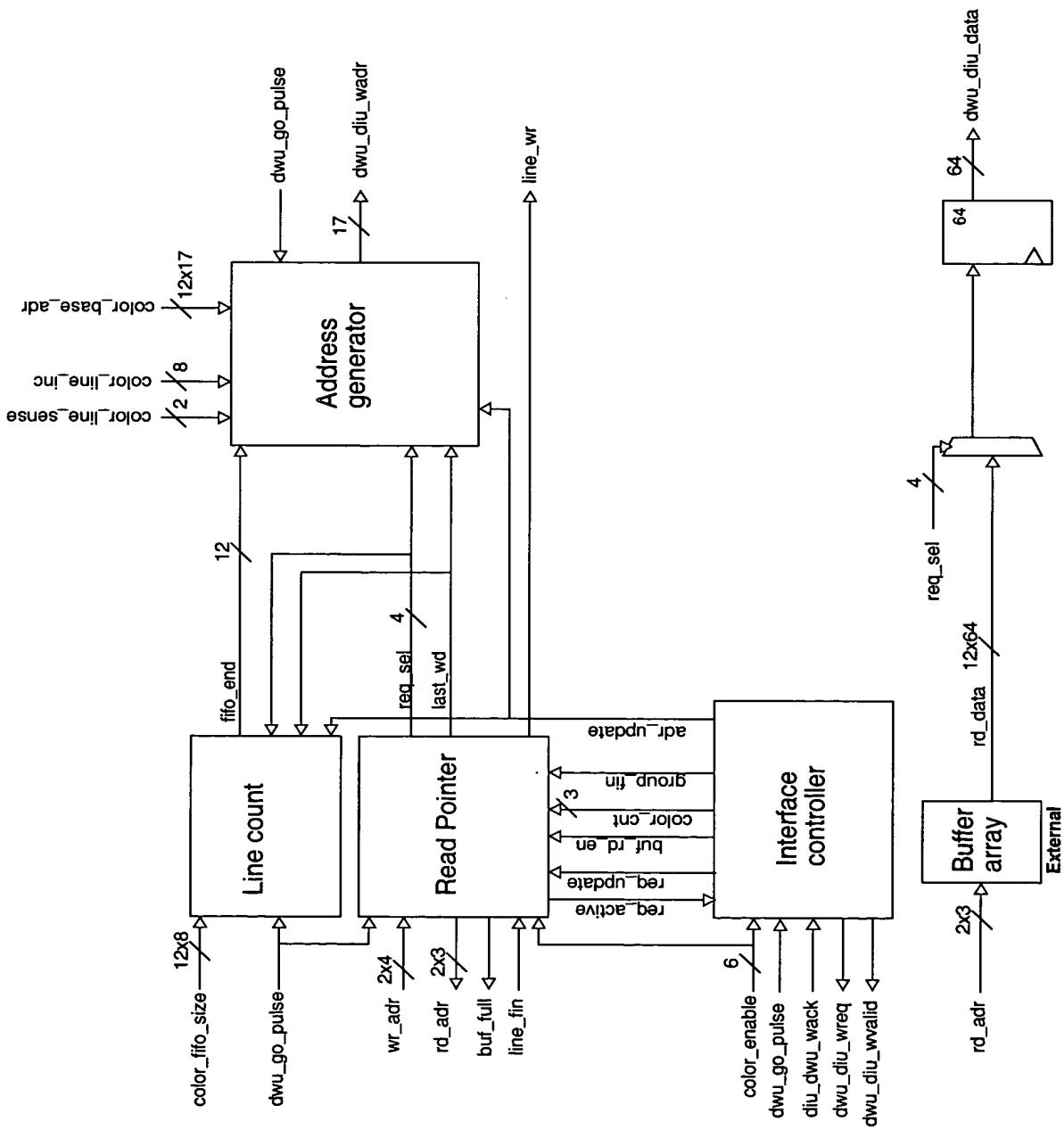


FIG. 265

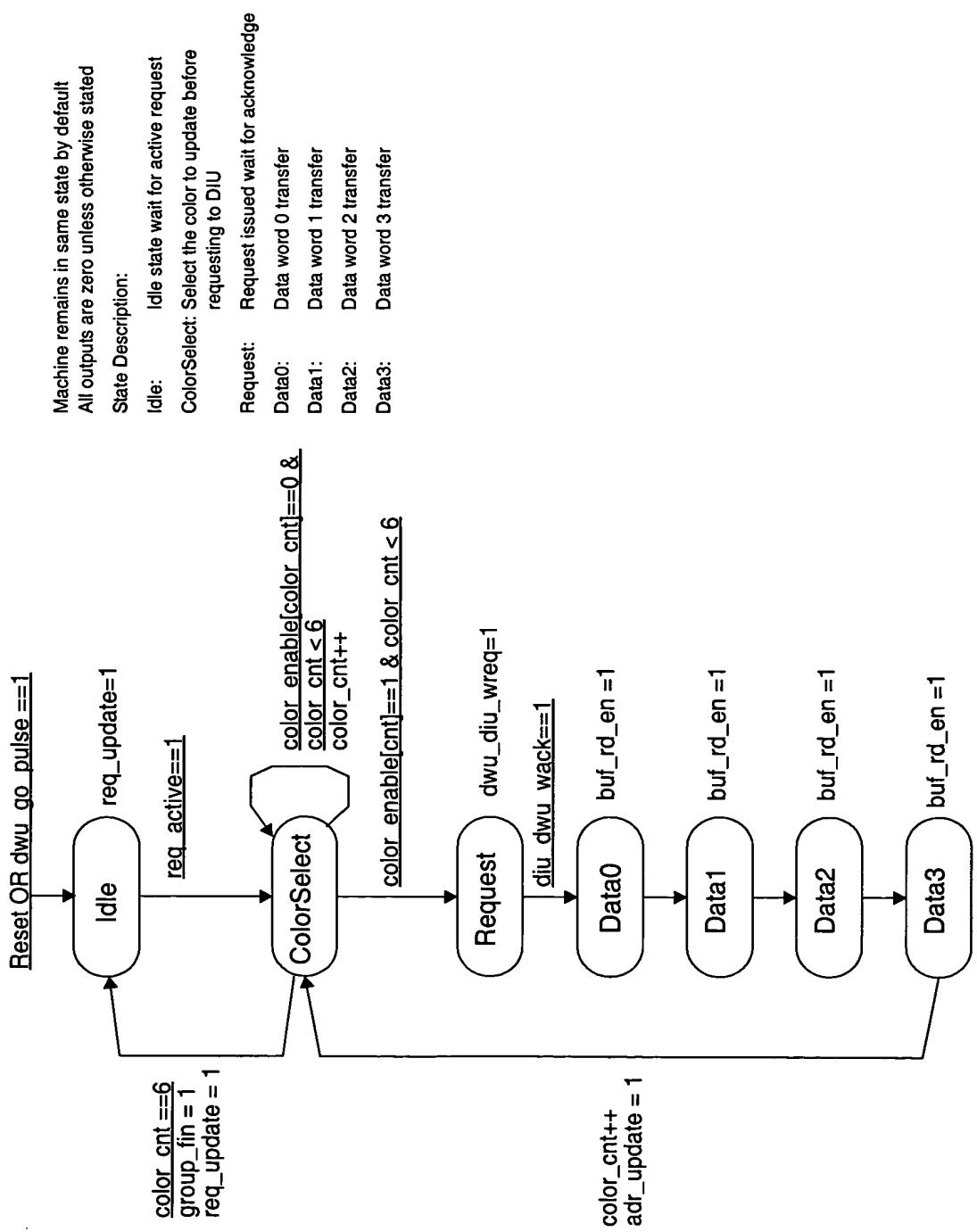


FIG. 266

FIG. 267

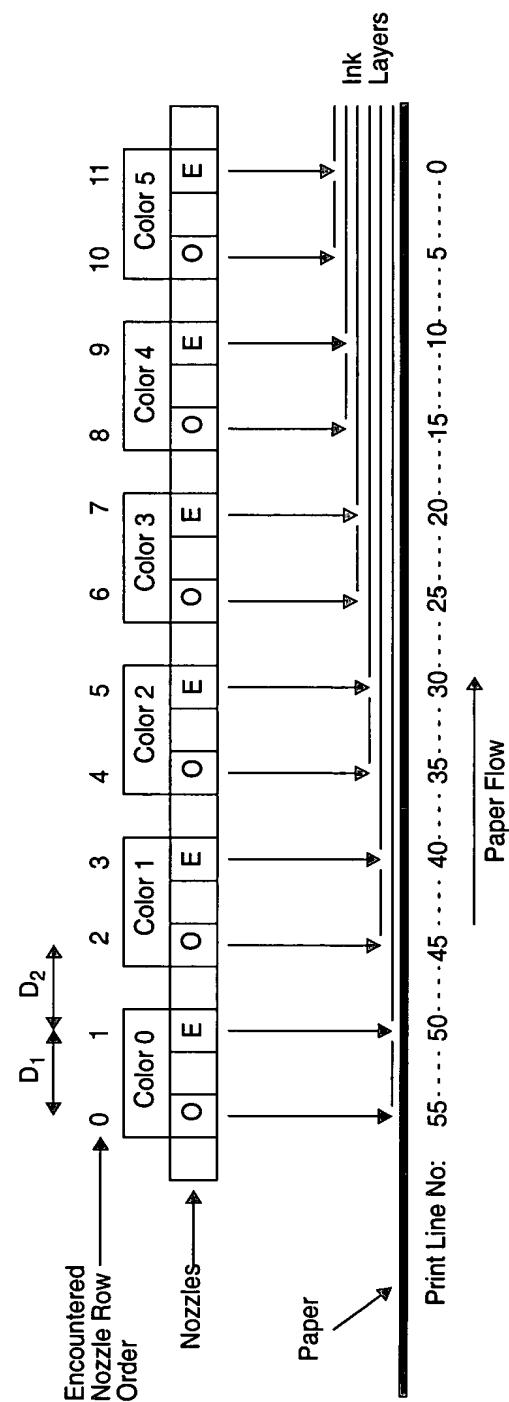
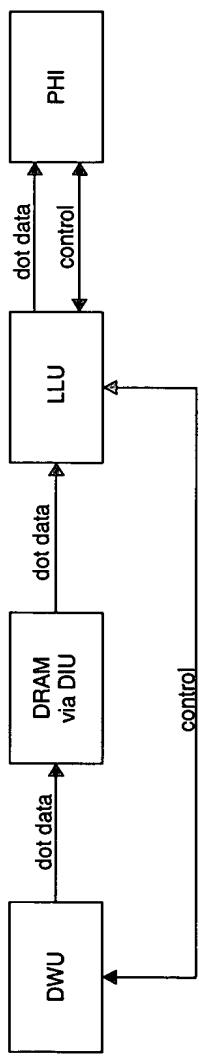


FIG. 268

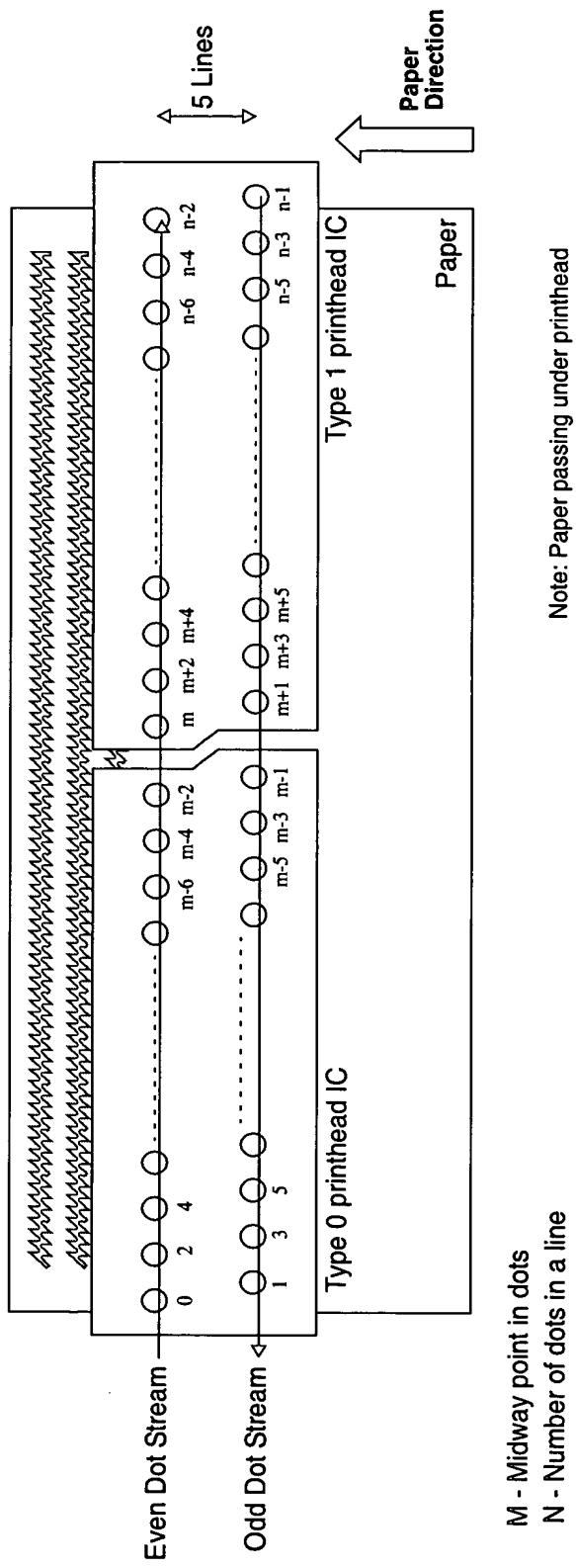
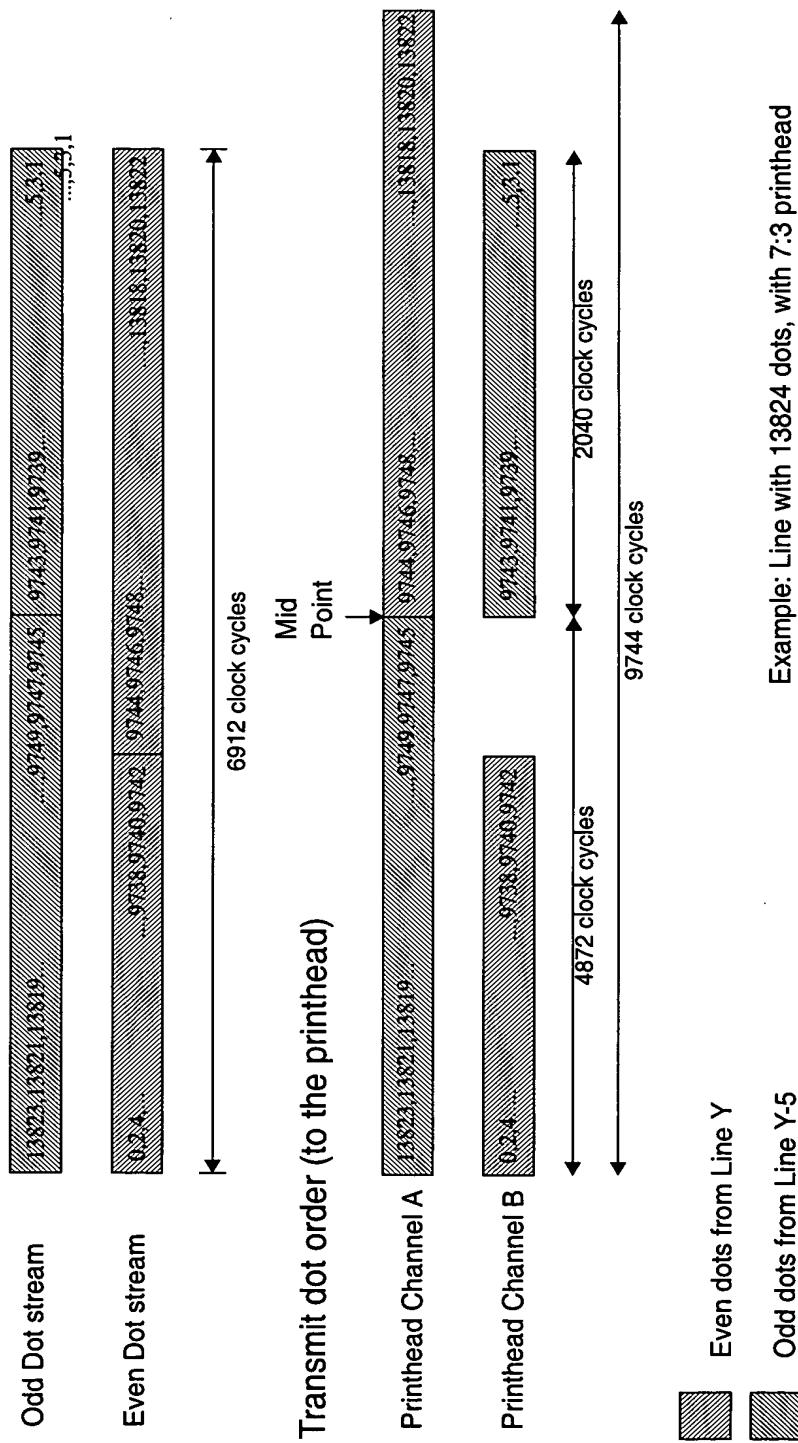


FIG. 269

Generate dot order (to the PHI)



Example: Line with 13824 dots, with 7:3 printhead

FIG. 270

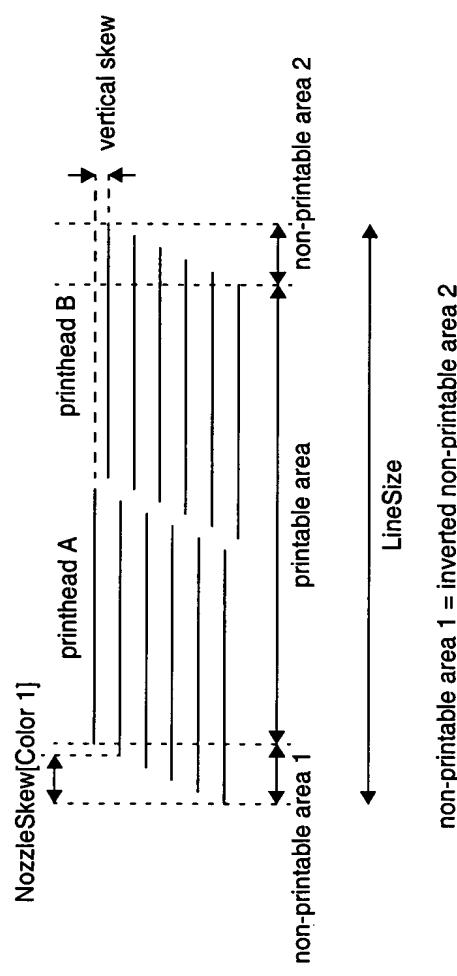


FIG. 271

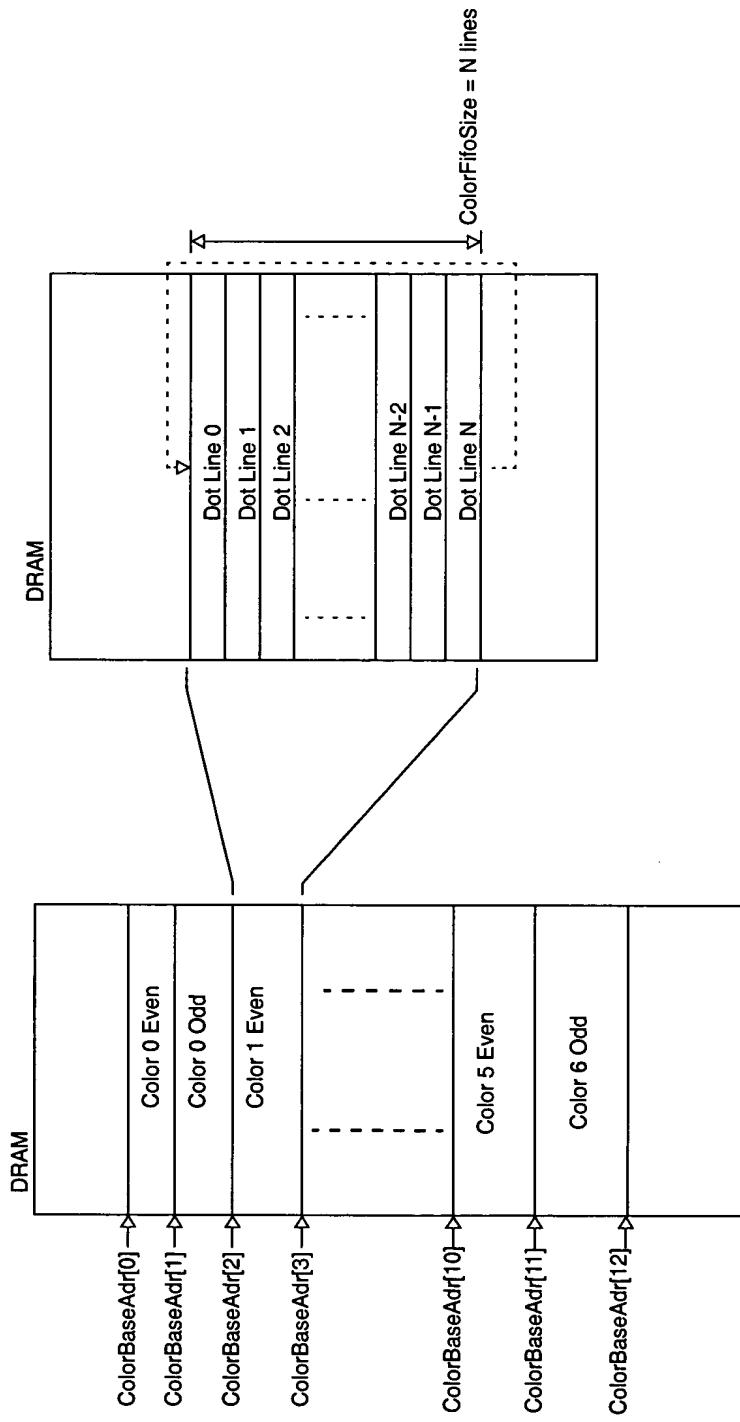


FIG. 272

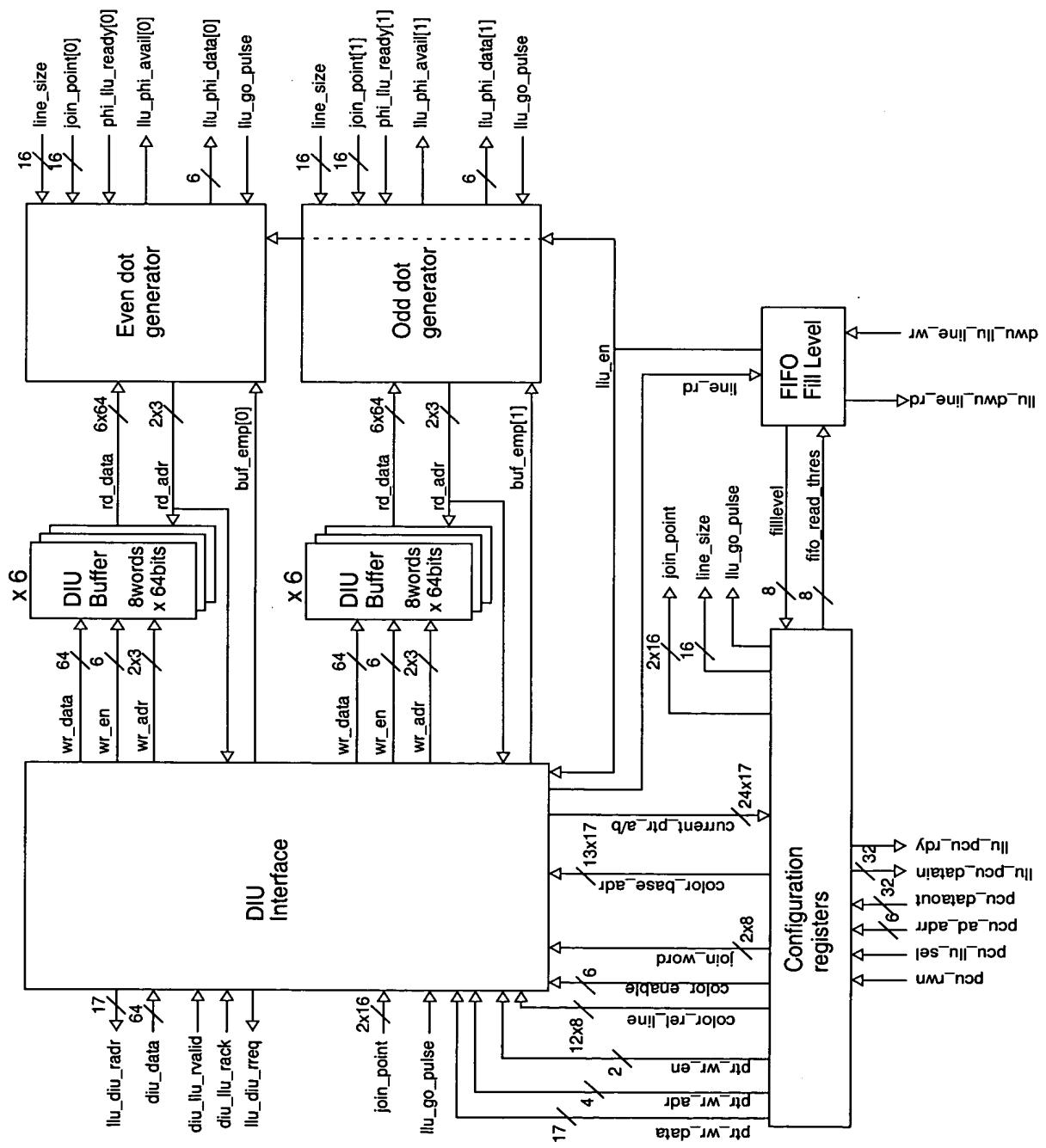


FIG. 273

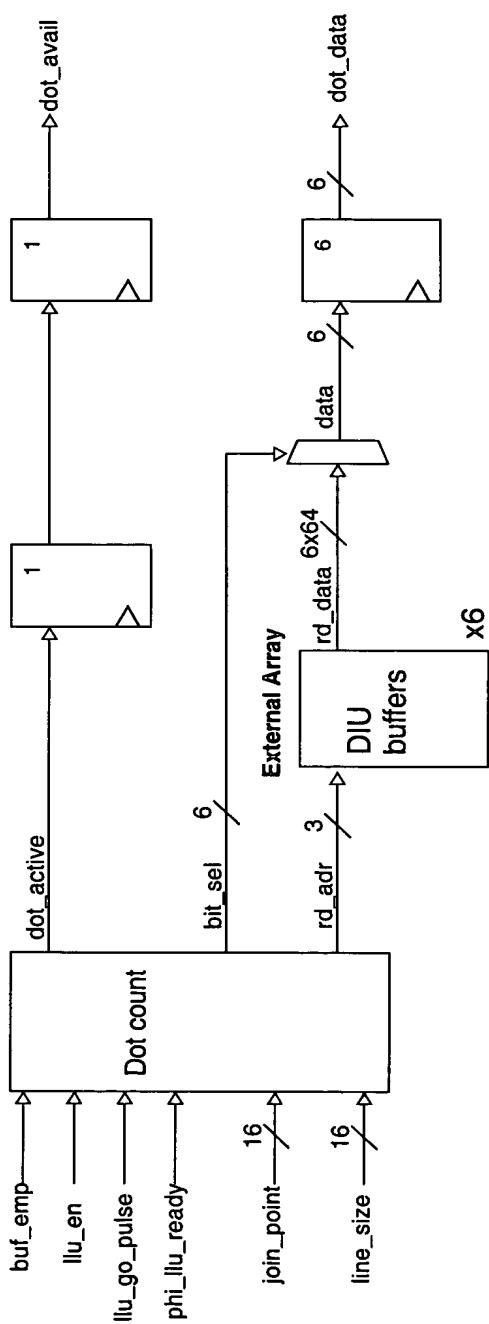


FIG. 274

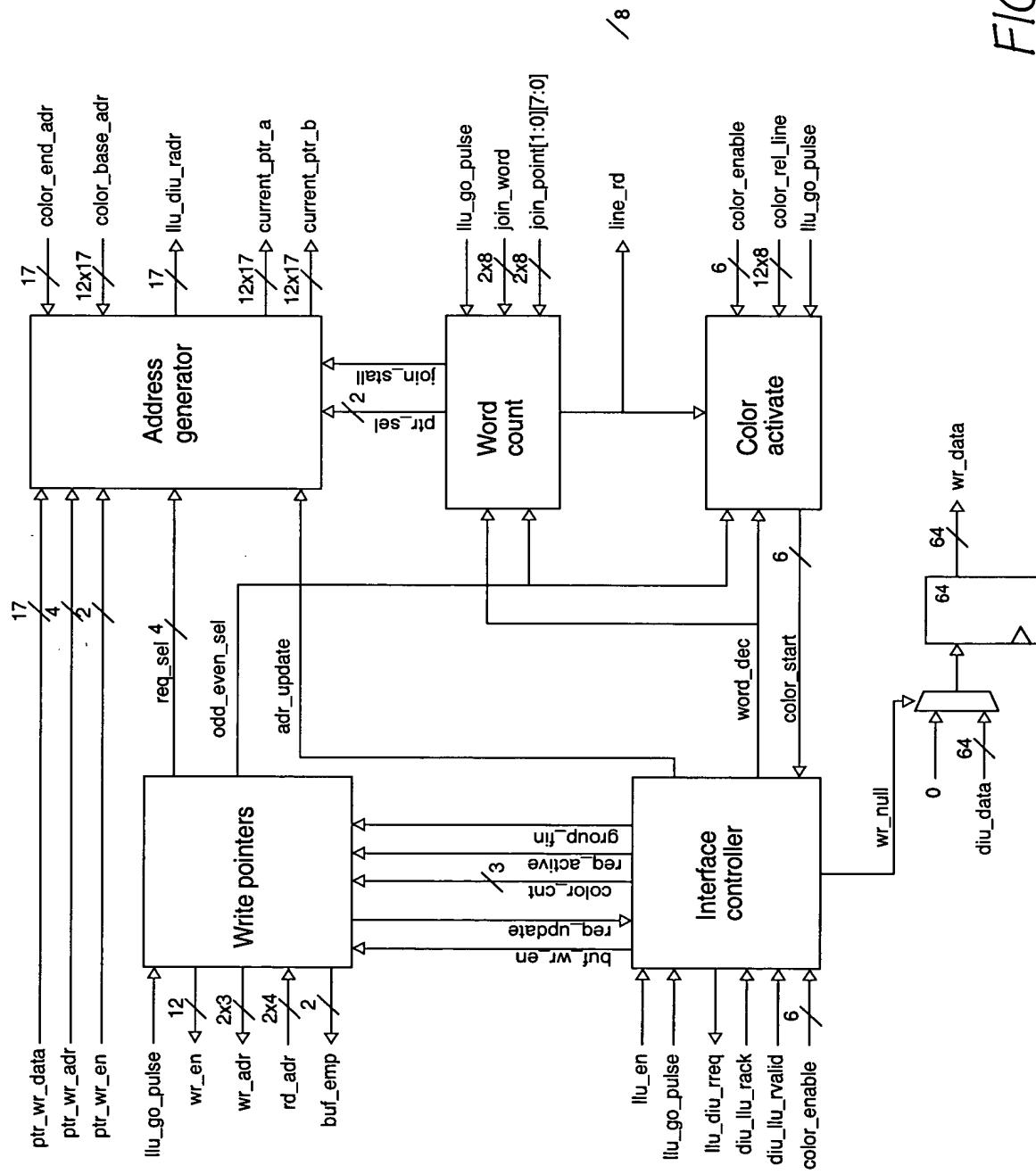


FIG. 275

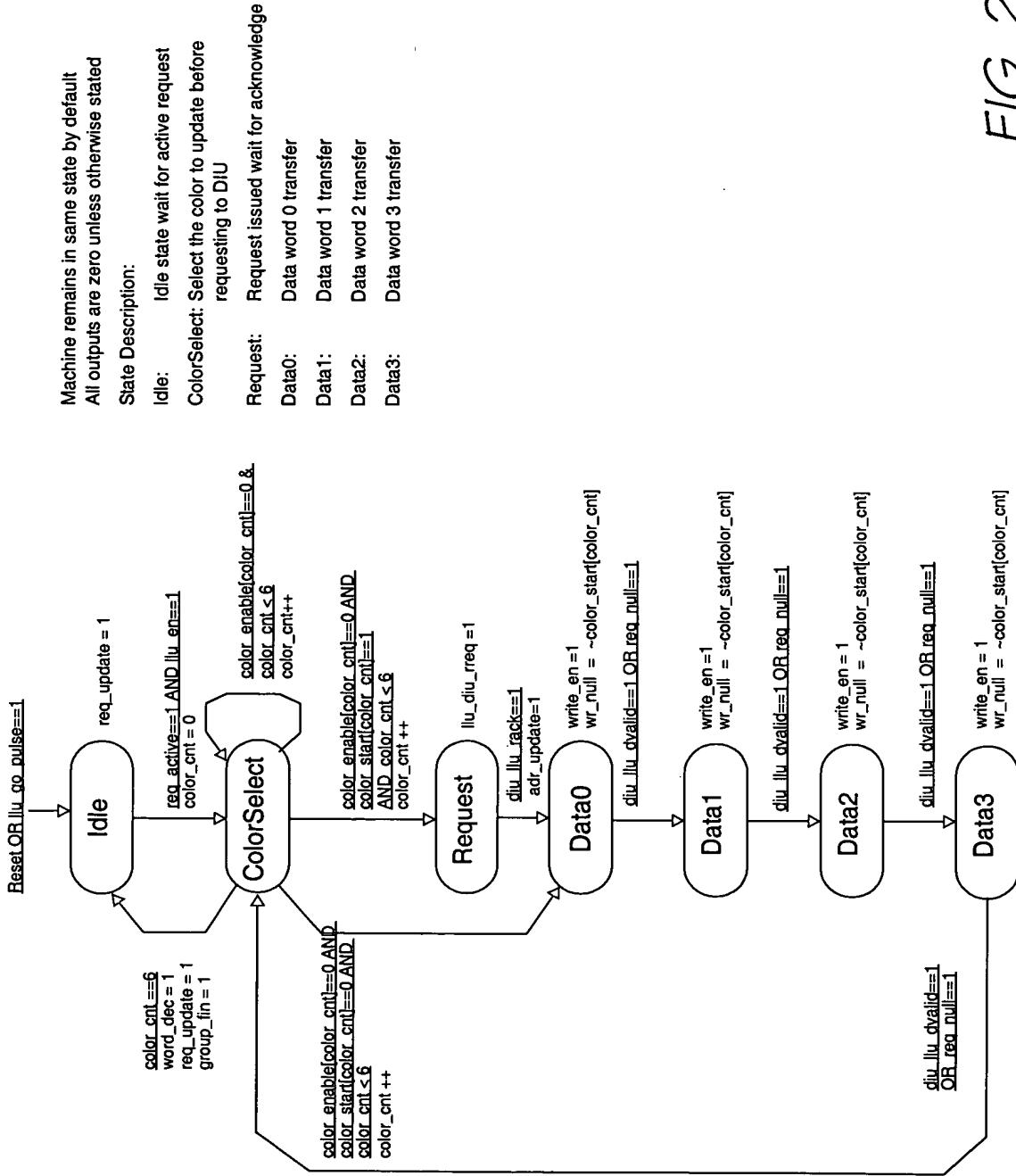


FIG. 276

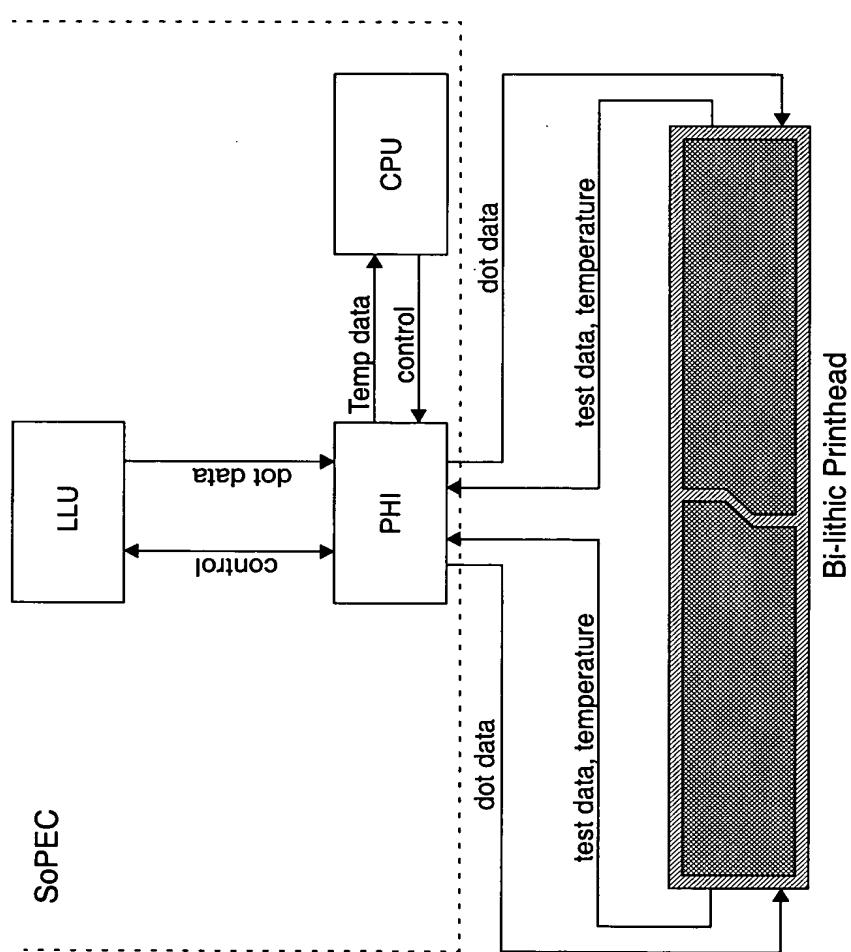


FIG. 277

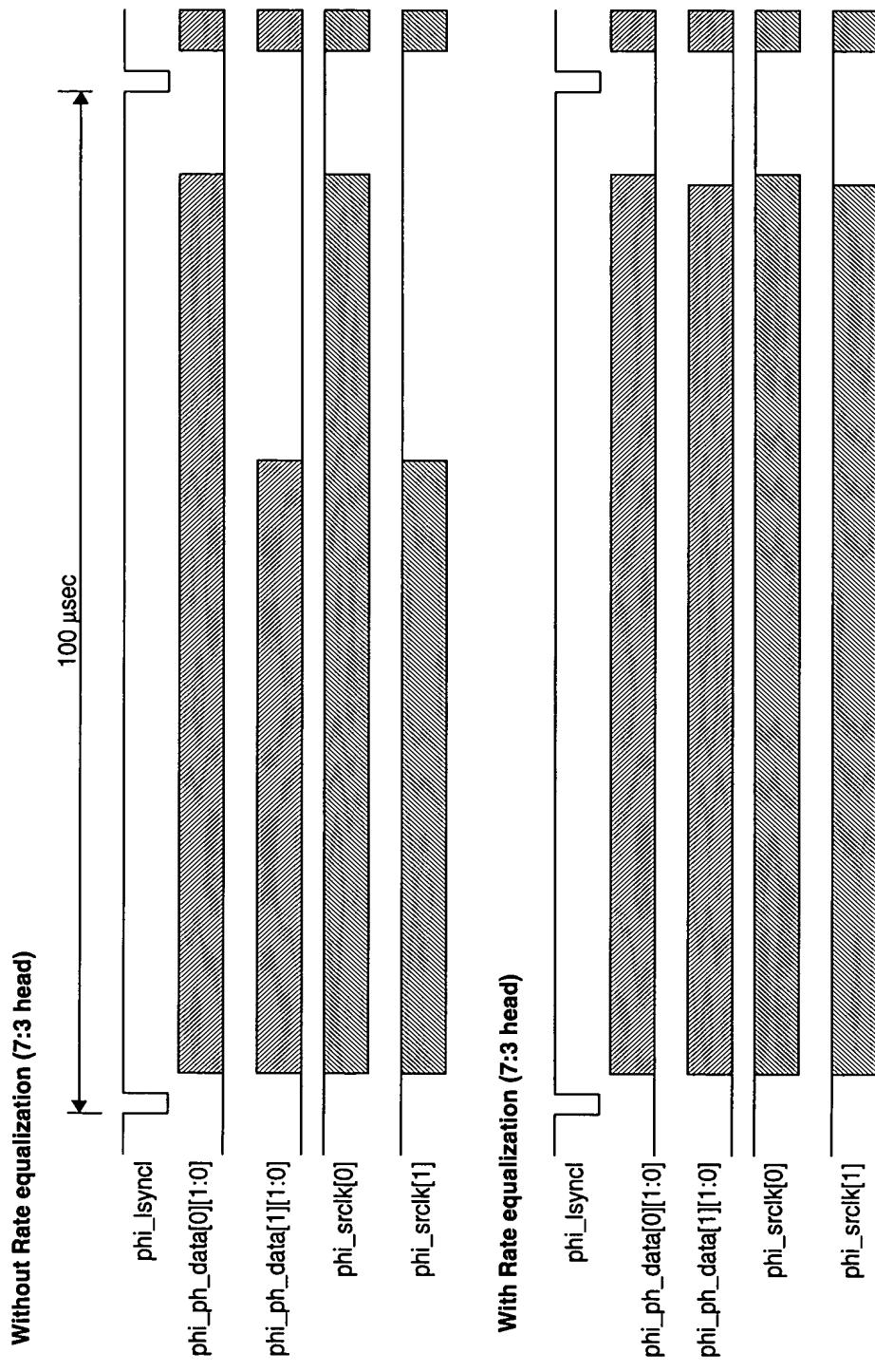
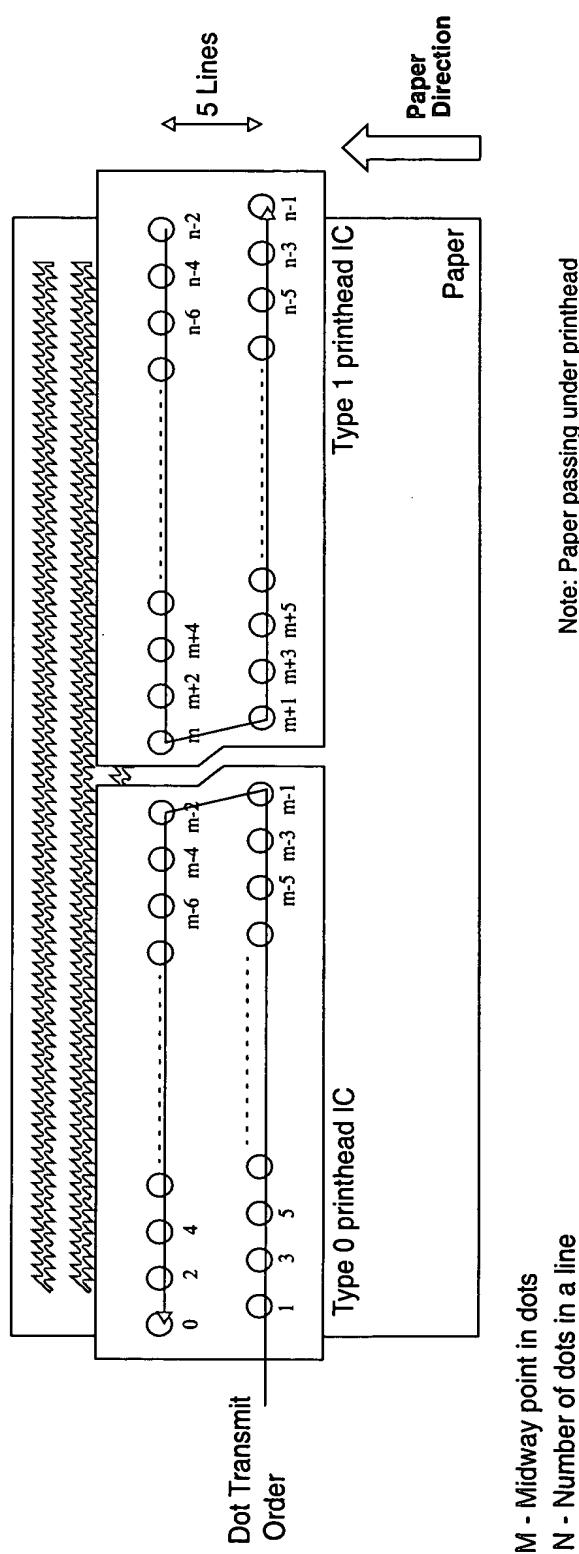


FIG. 279



M - Midway point in dots
N - Number of dots in a line

FIG. 280

Generate dot order (from the LLU)

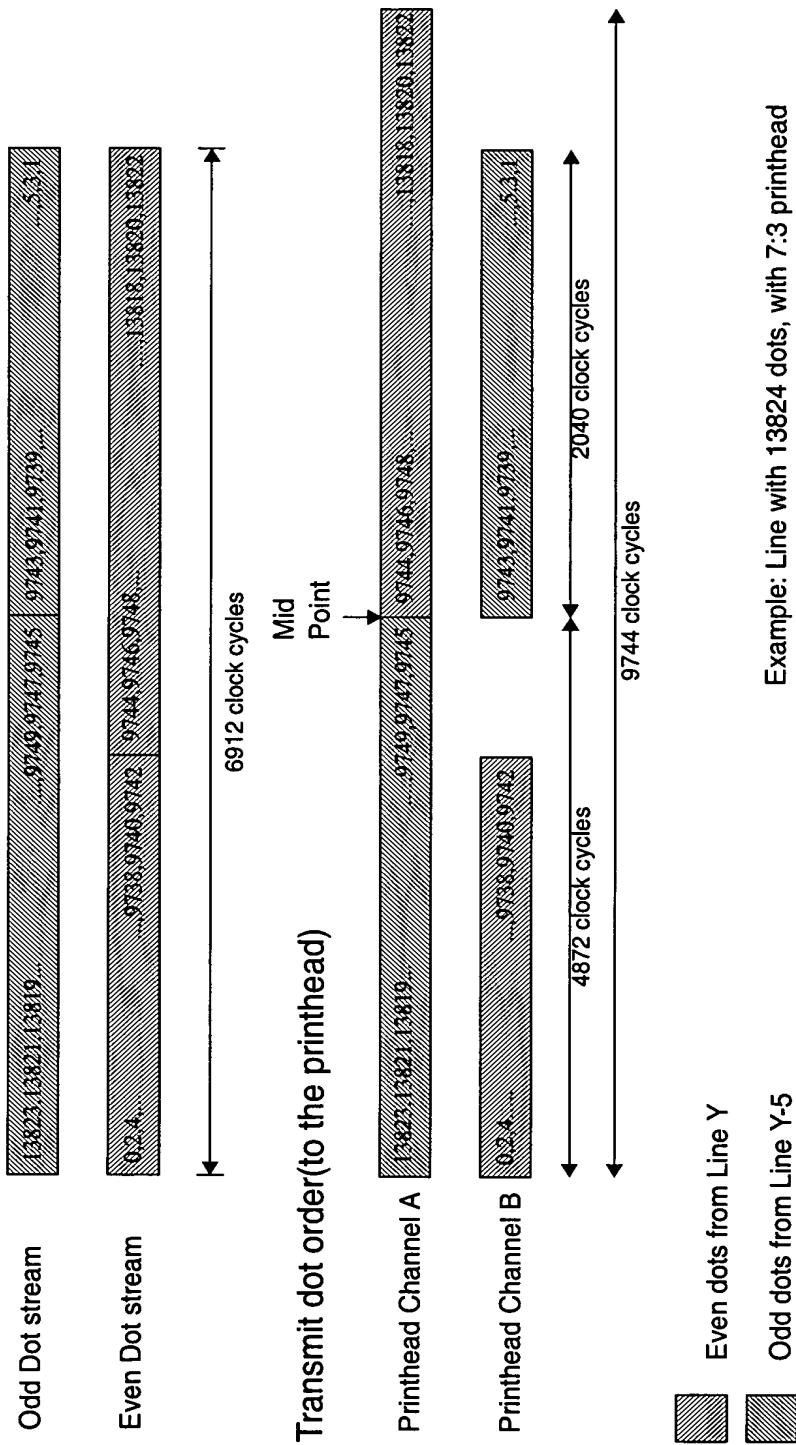
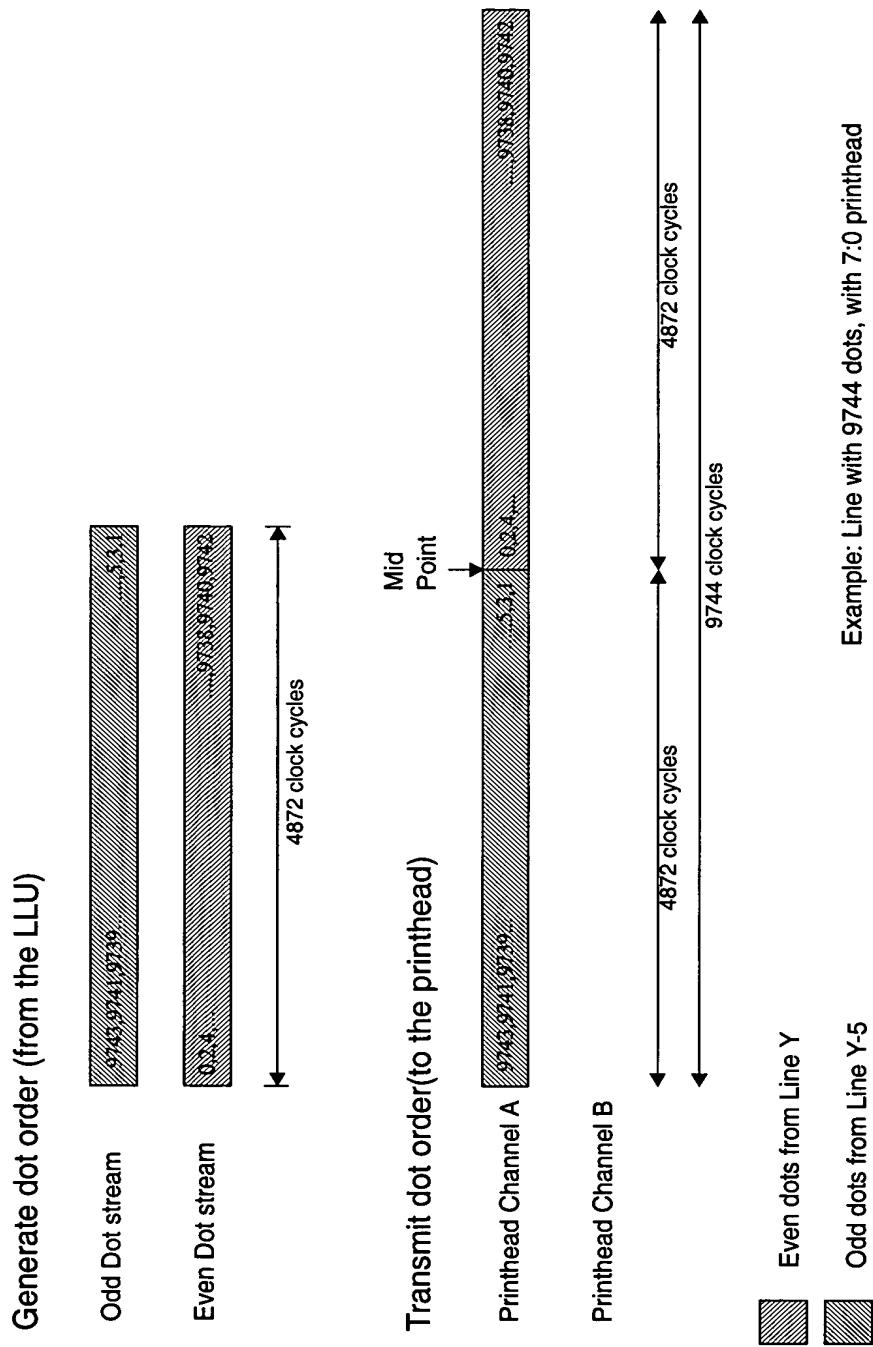


FIG. 281



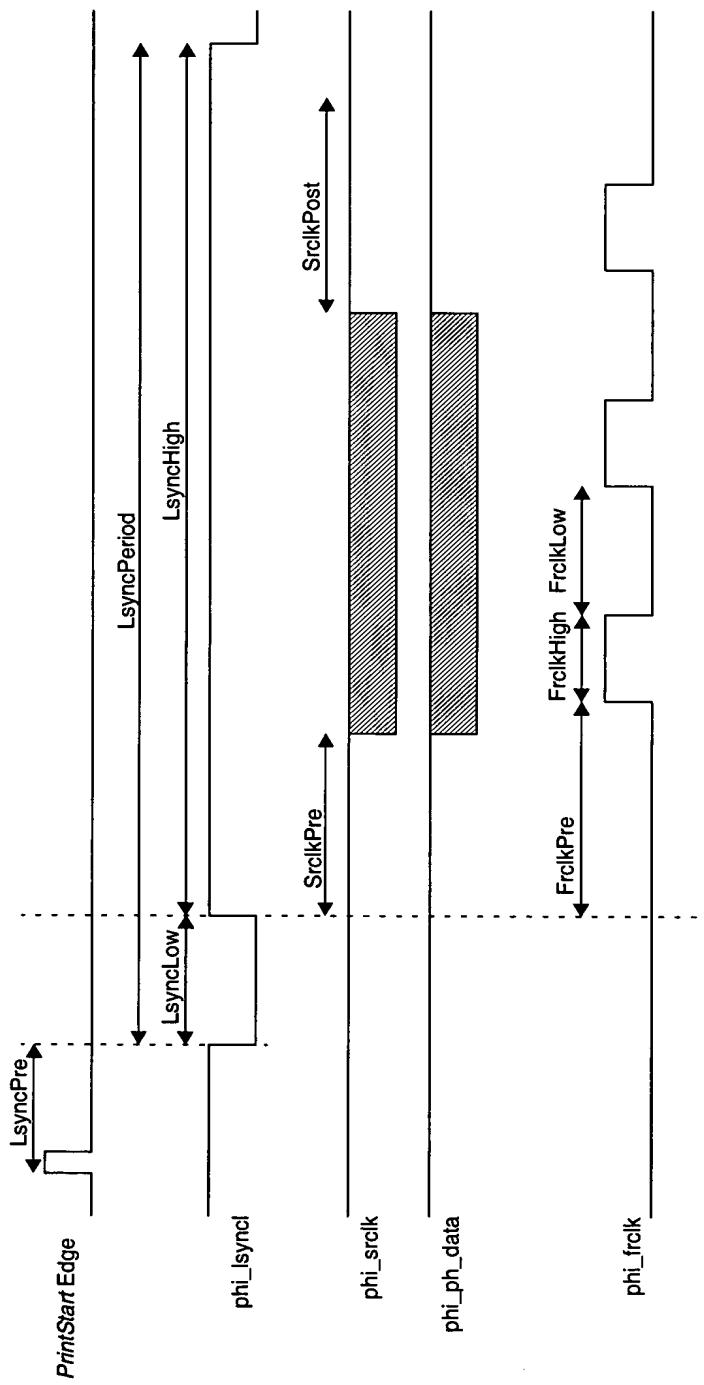


FIG. 283

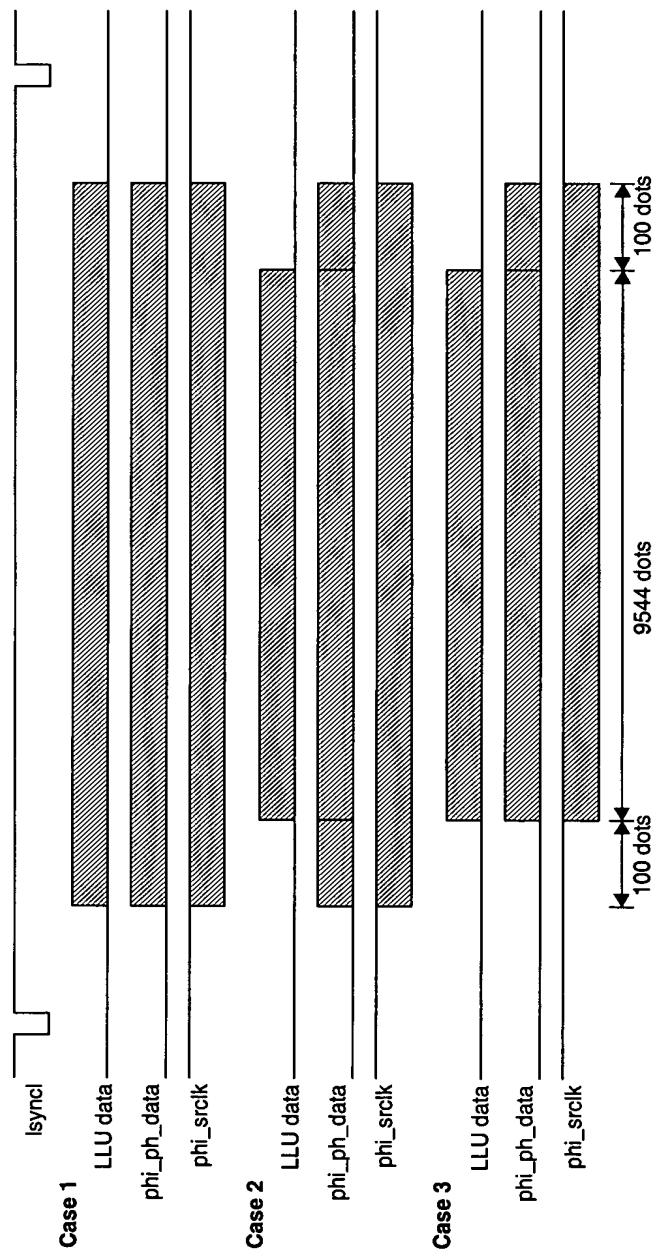
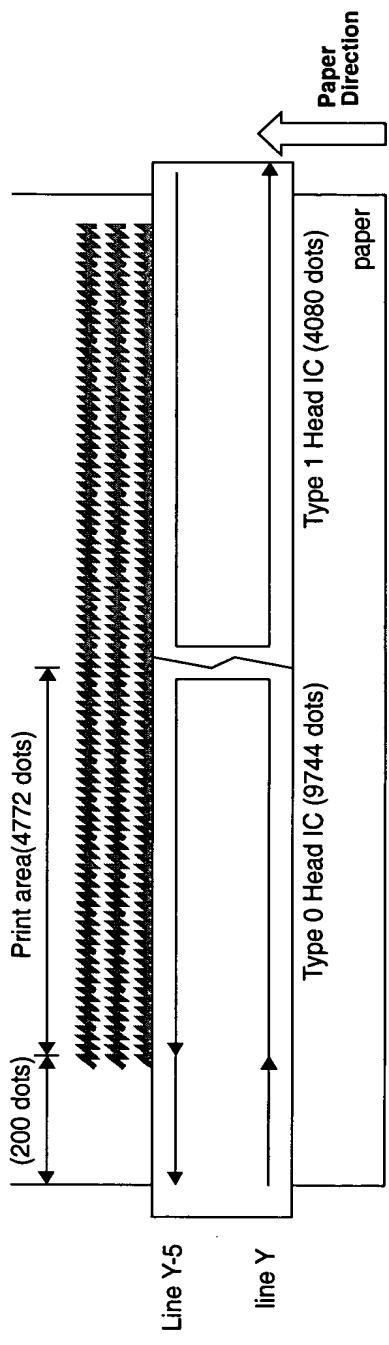


FIG. 284

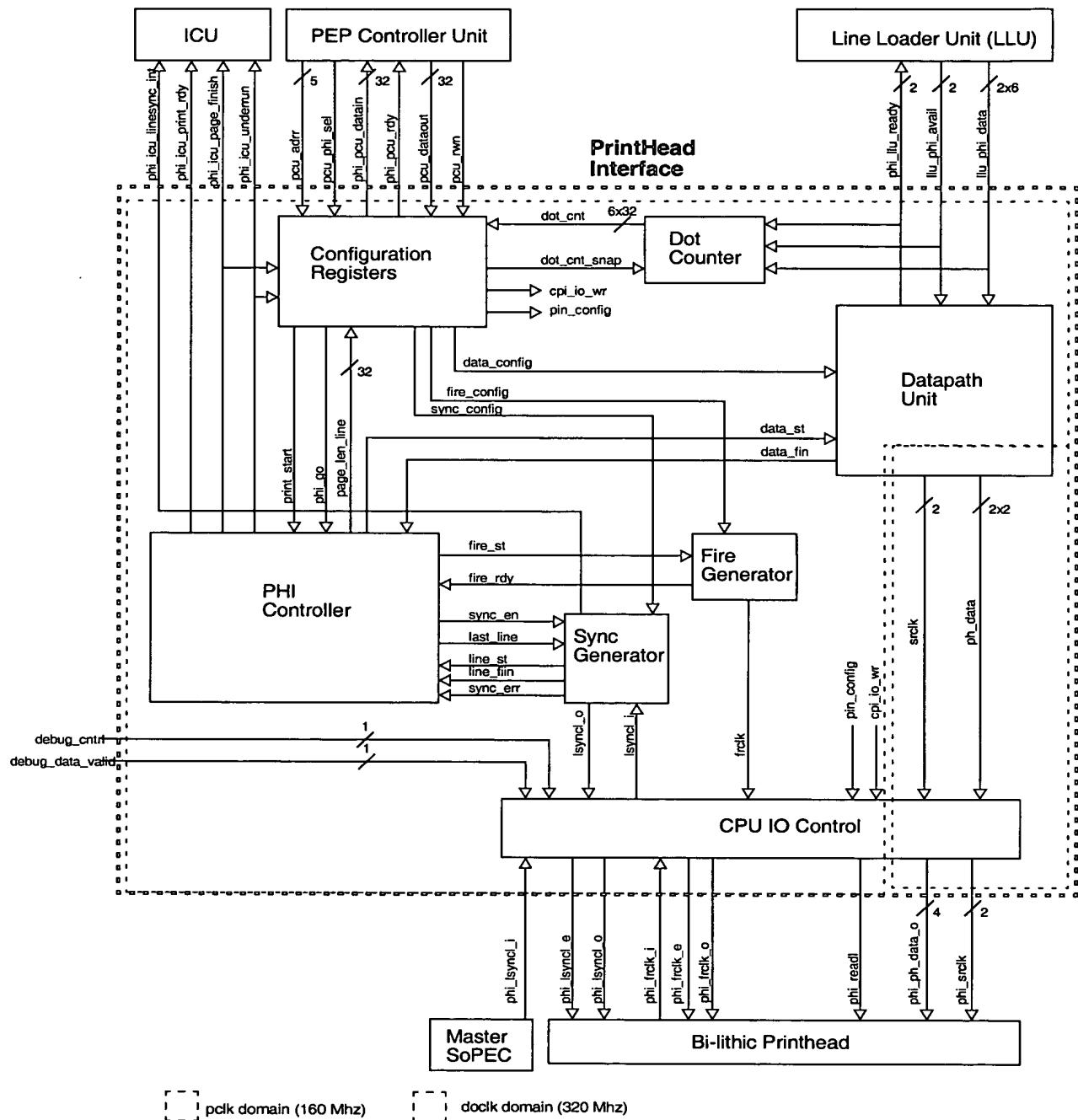


FIG. 285

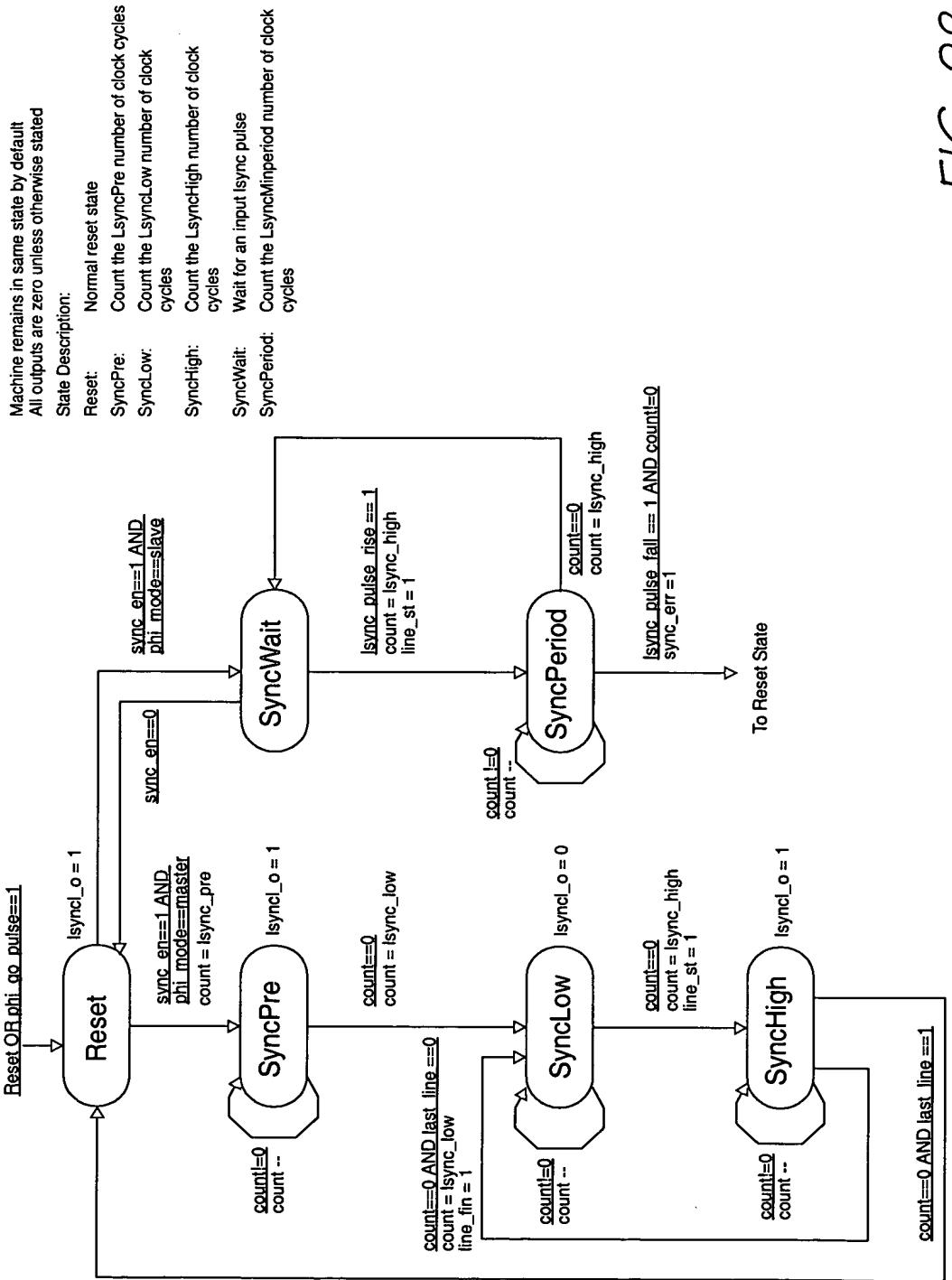


FIG. 286

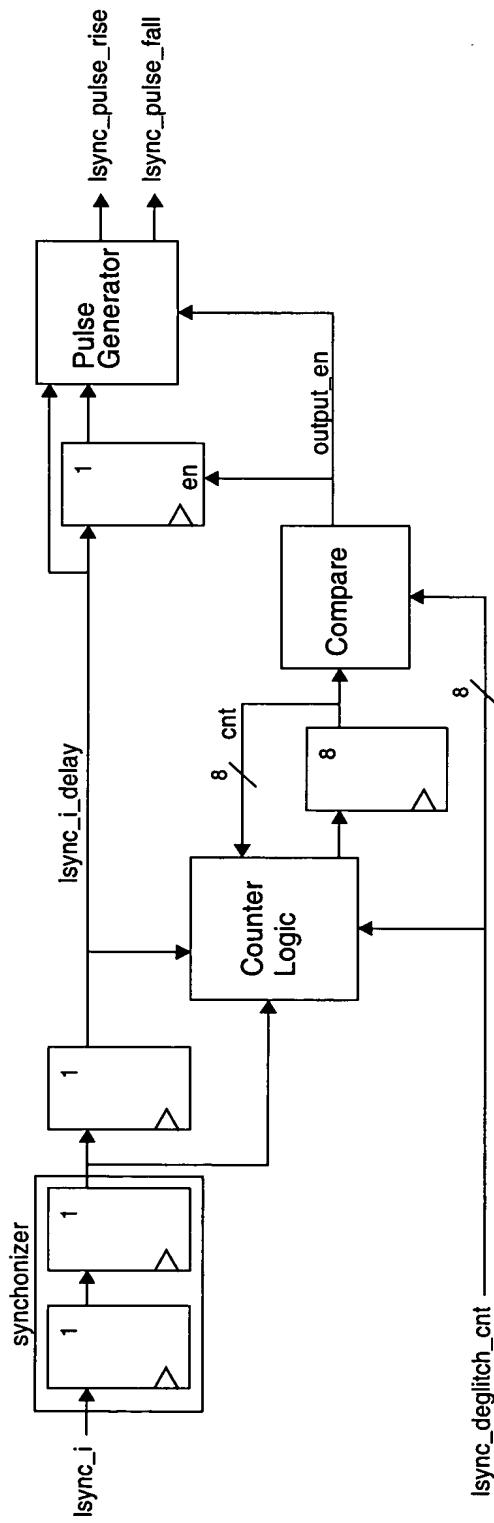


FIG. 287

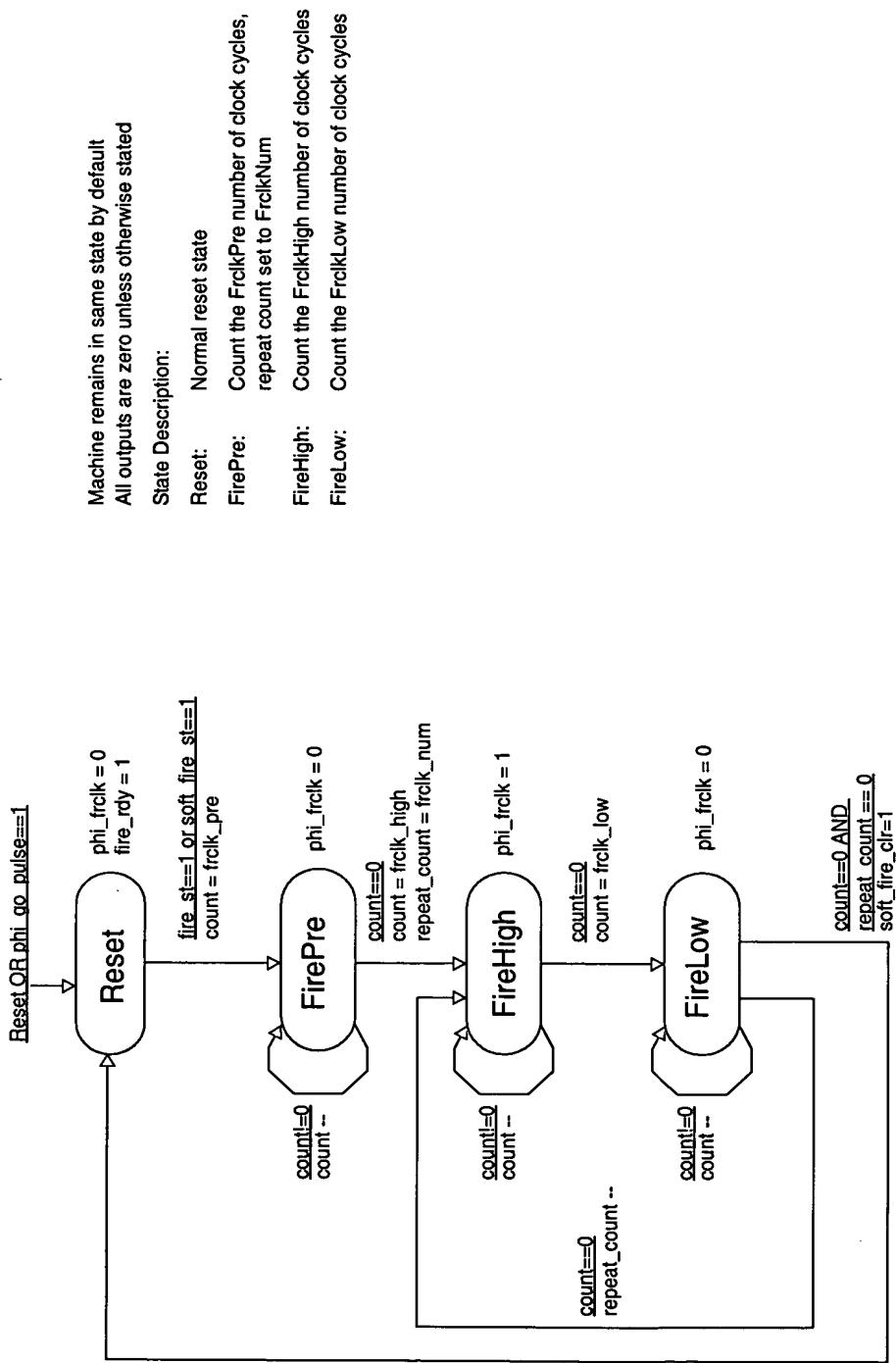


FIG. 288

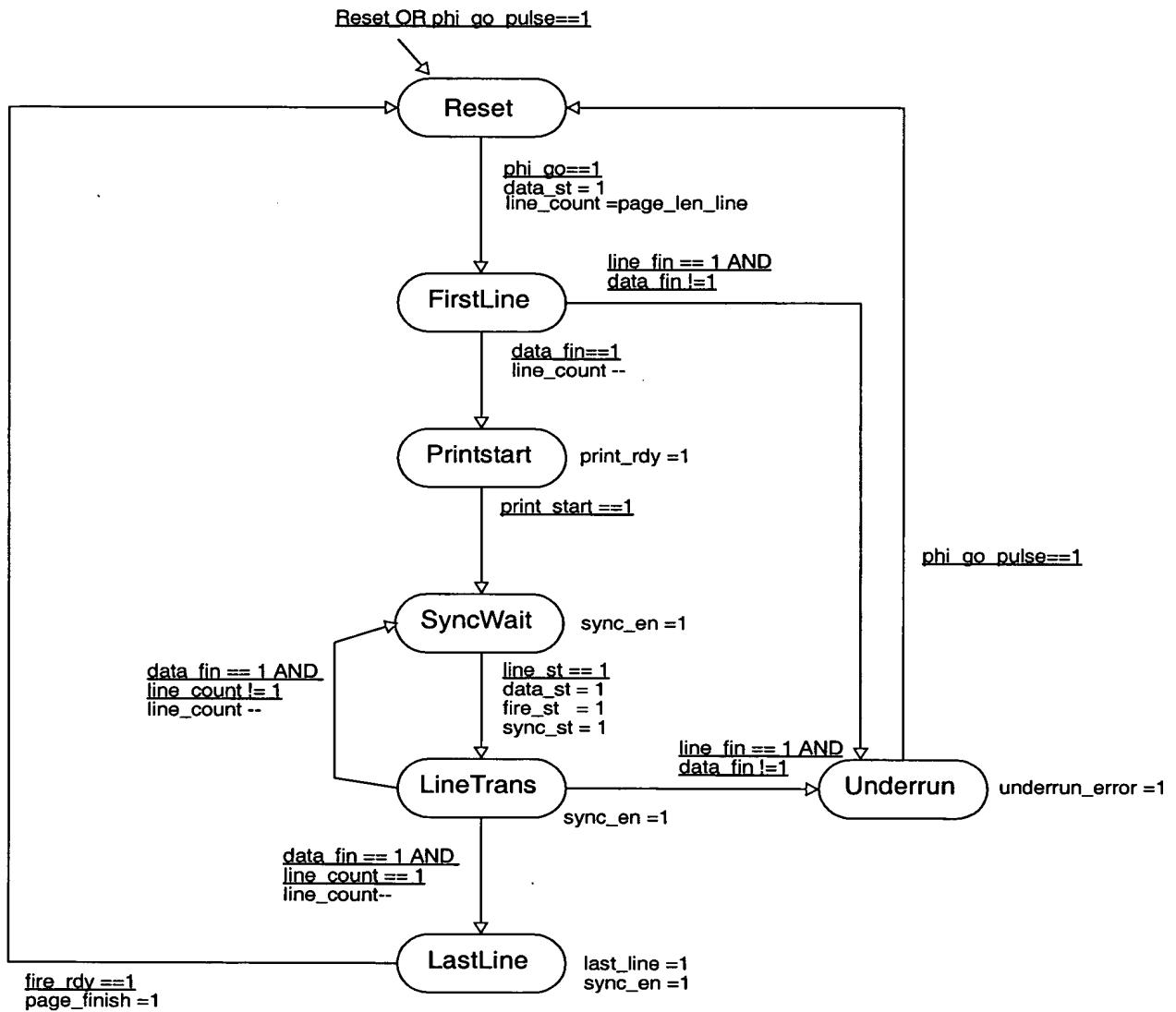


FIG. 289

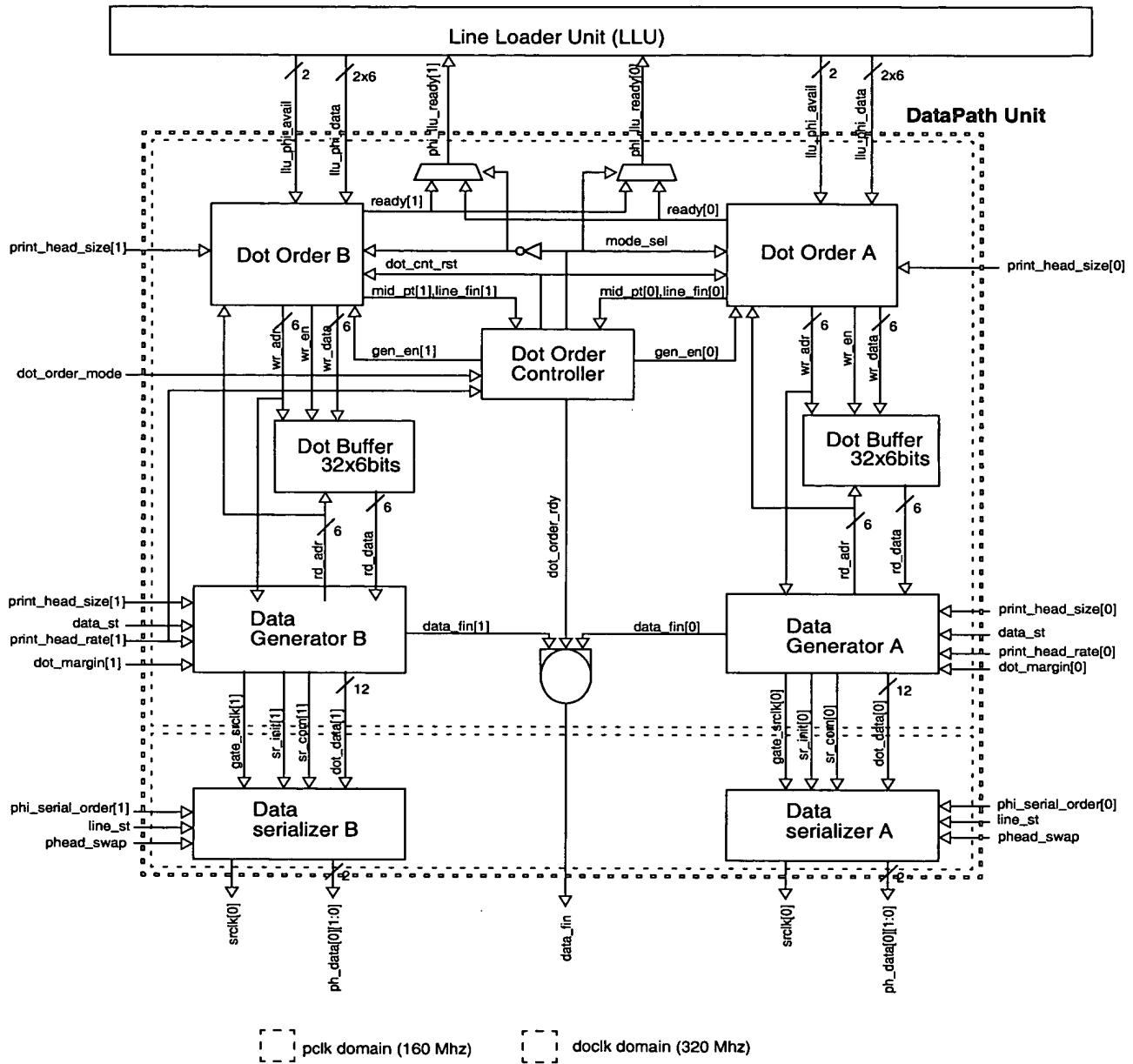


FIG. 290

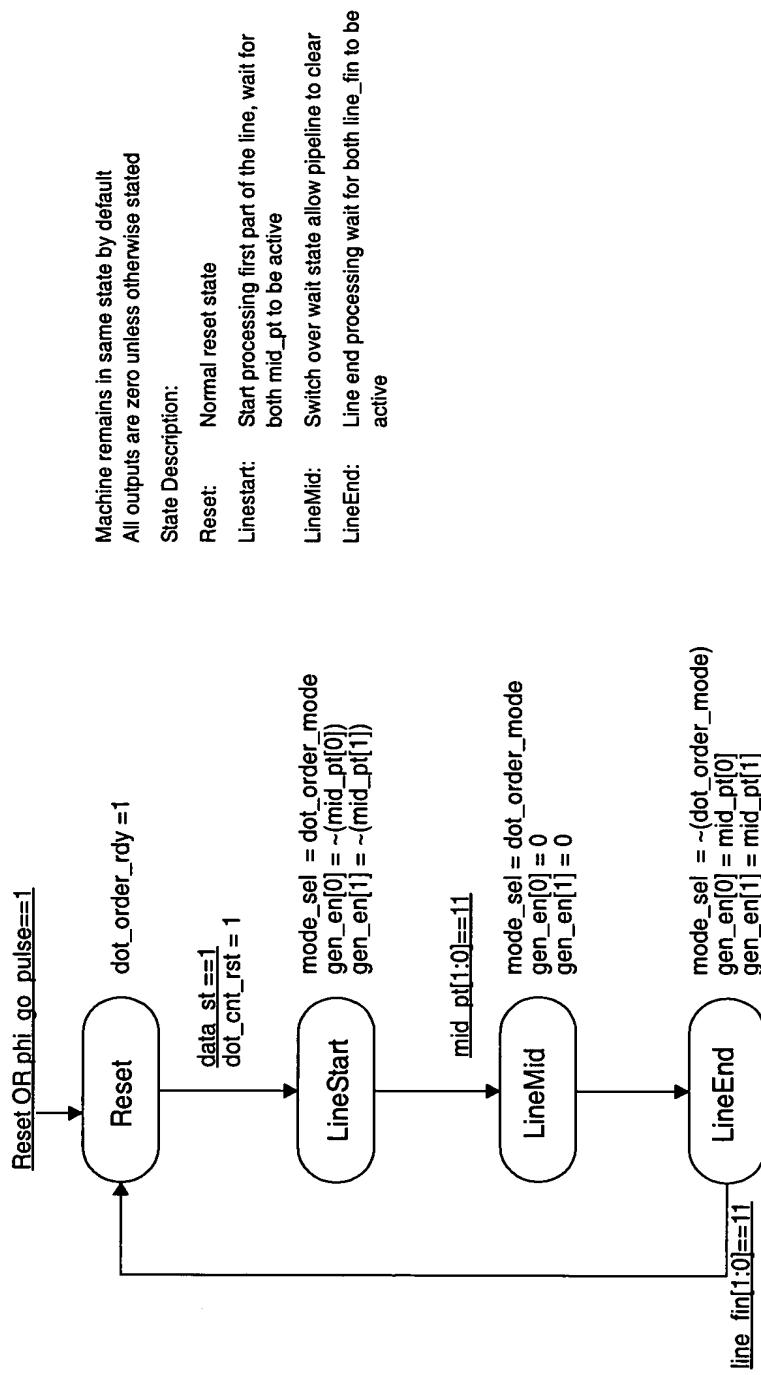


FIG. 291

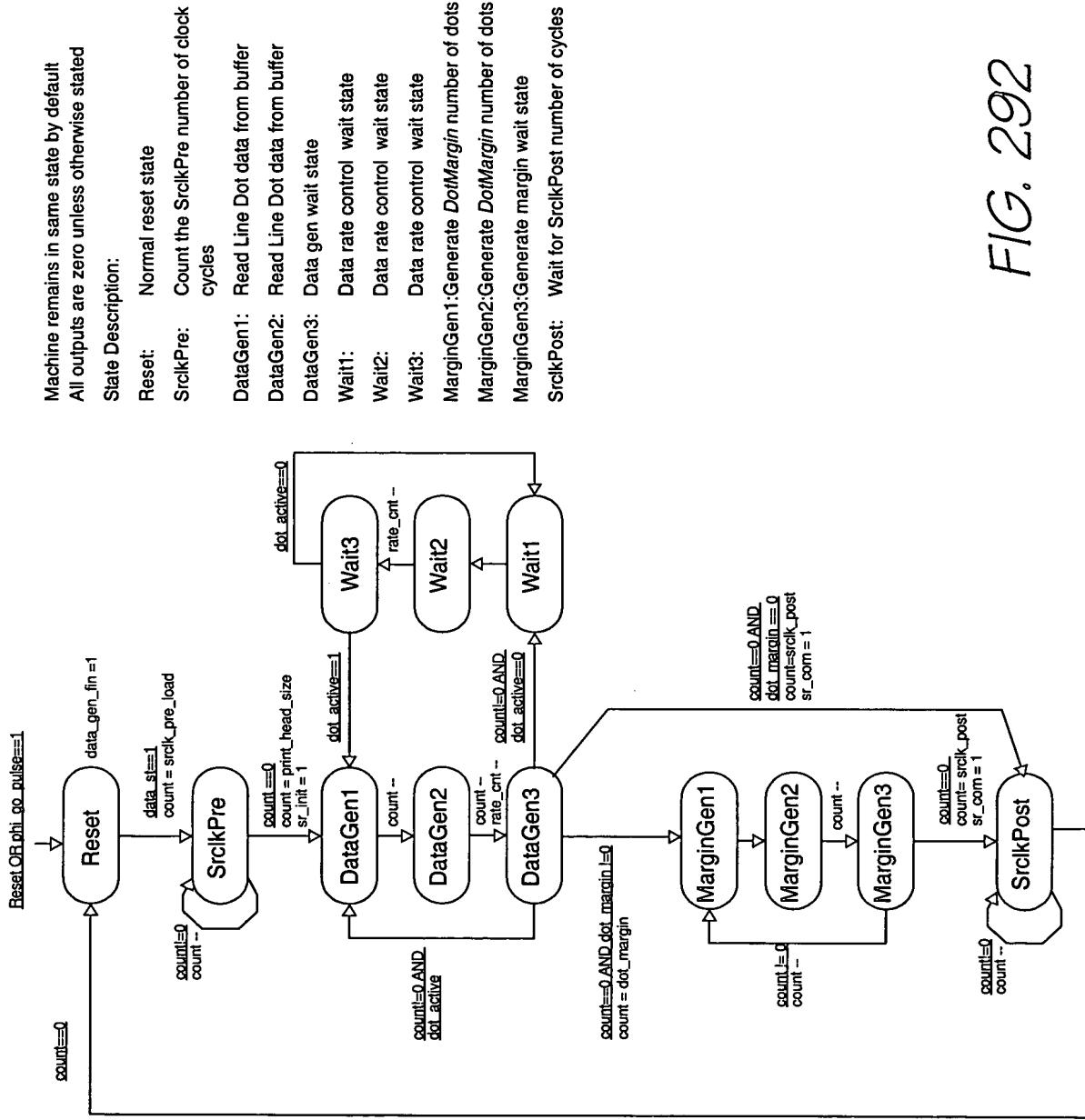


FIG. 292

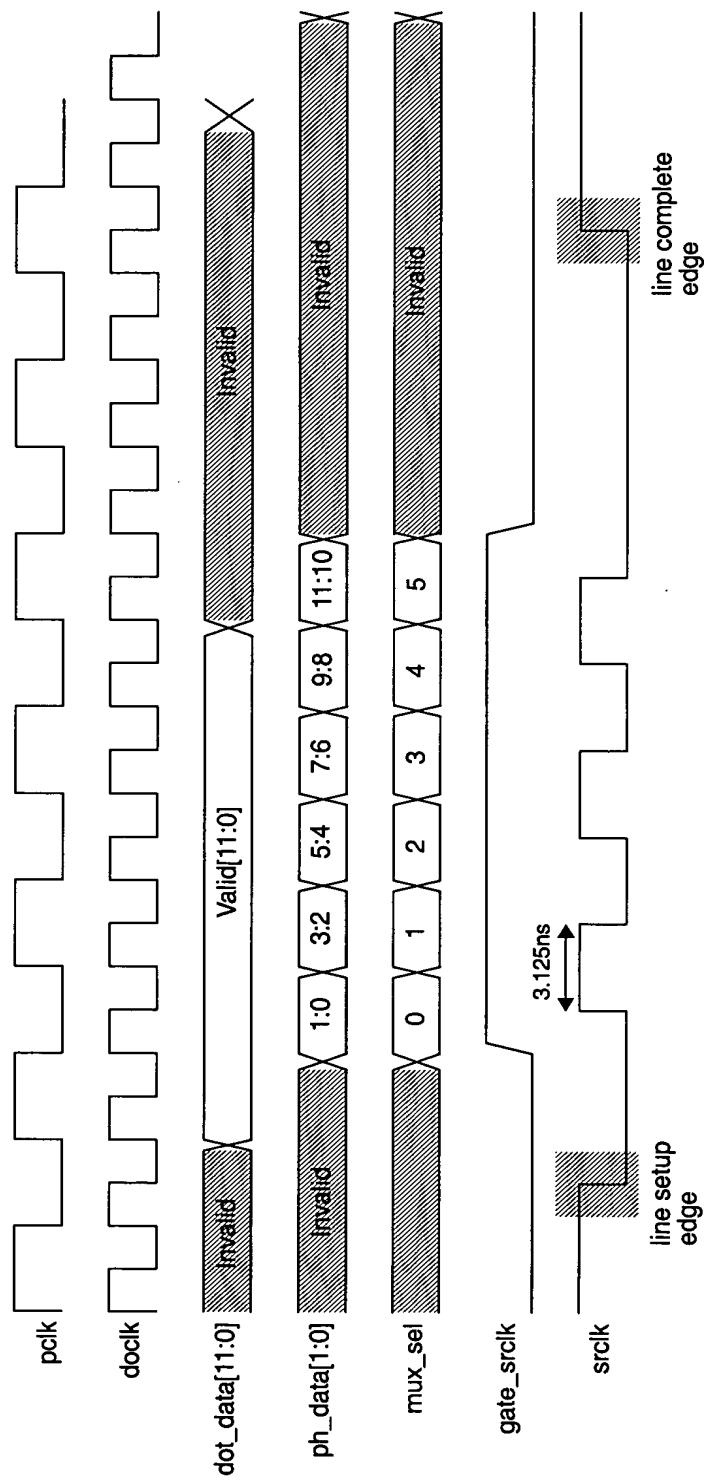


FIG. 293

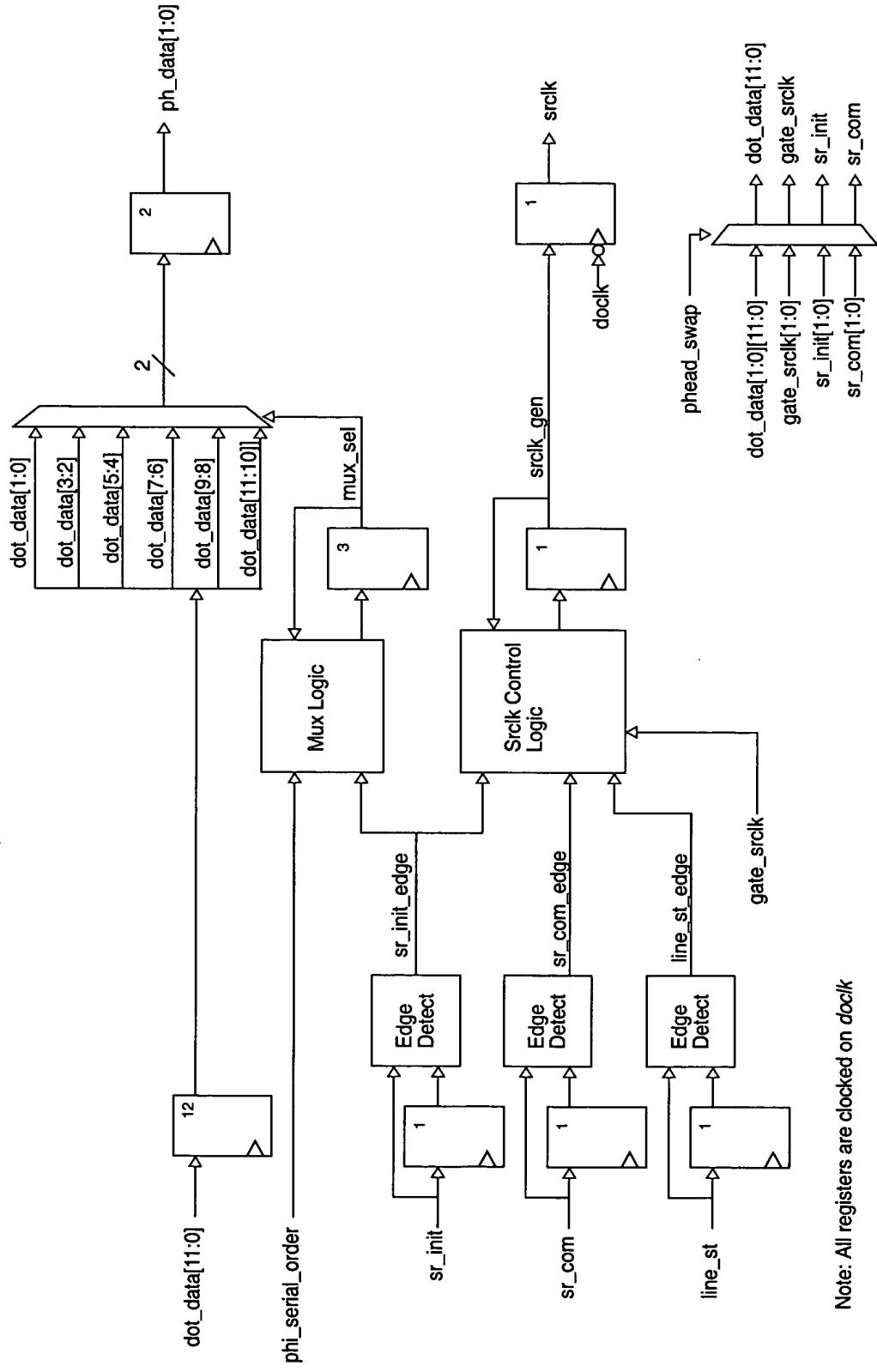


FIG. 294

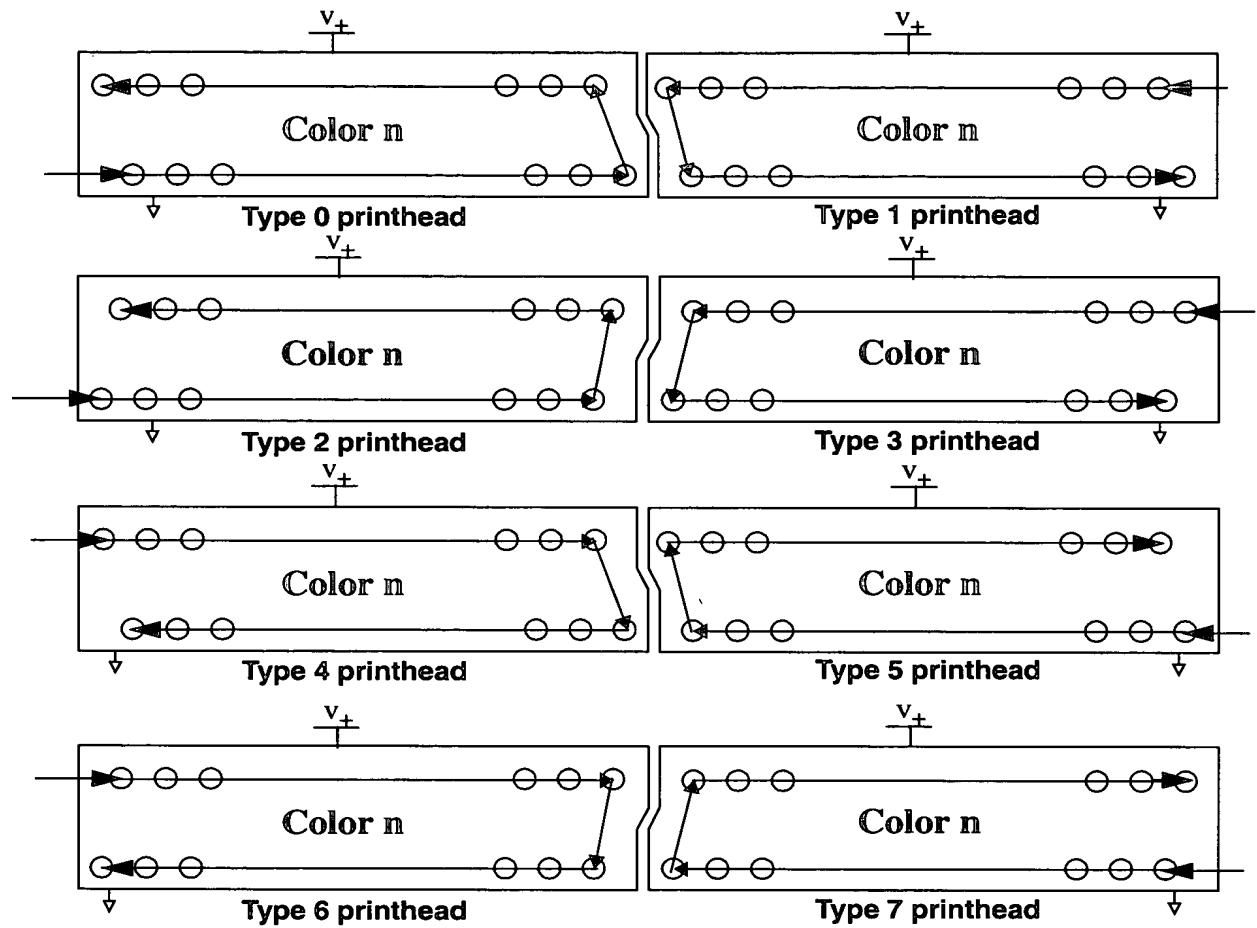


FIG. 295

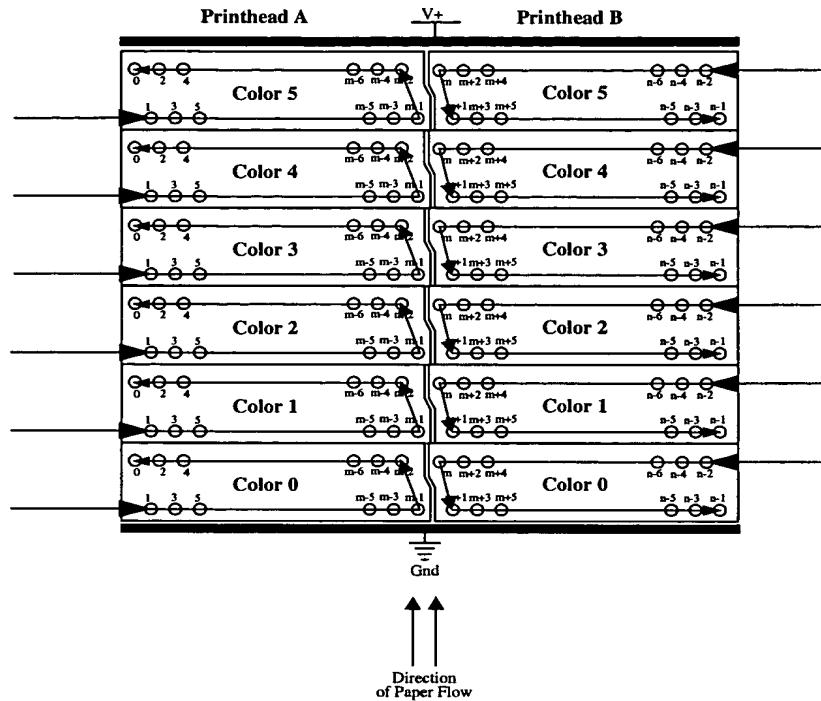


FIG. 296

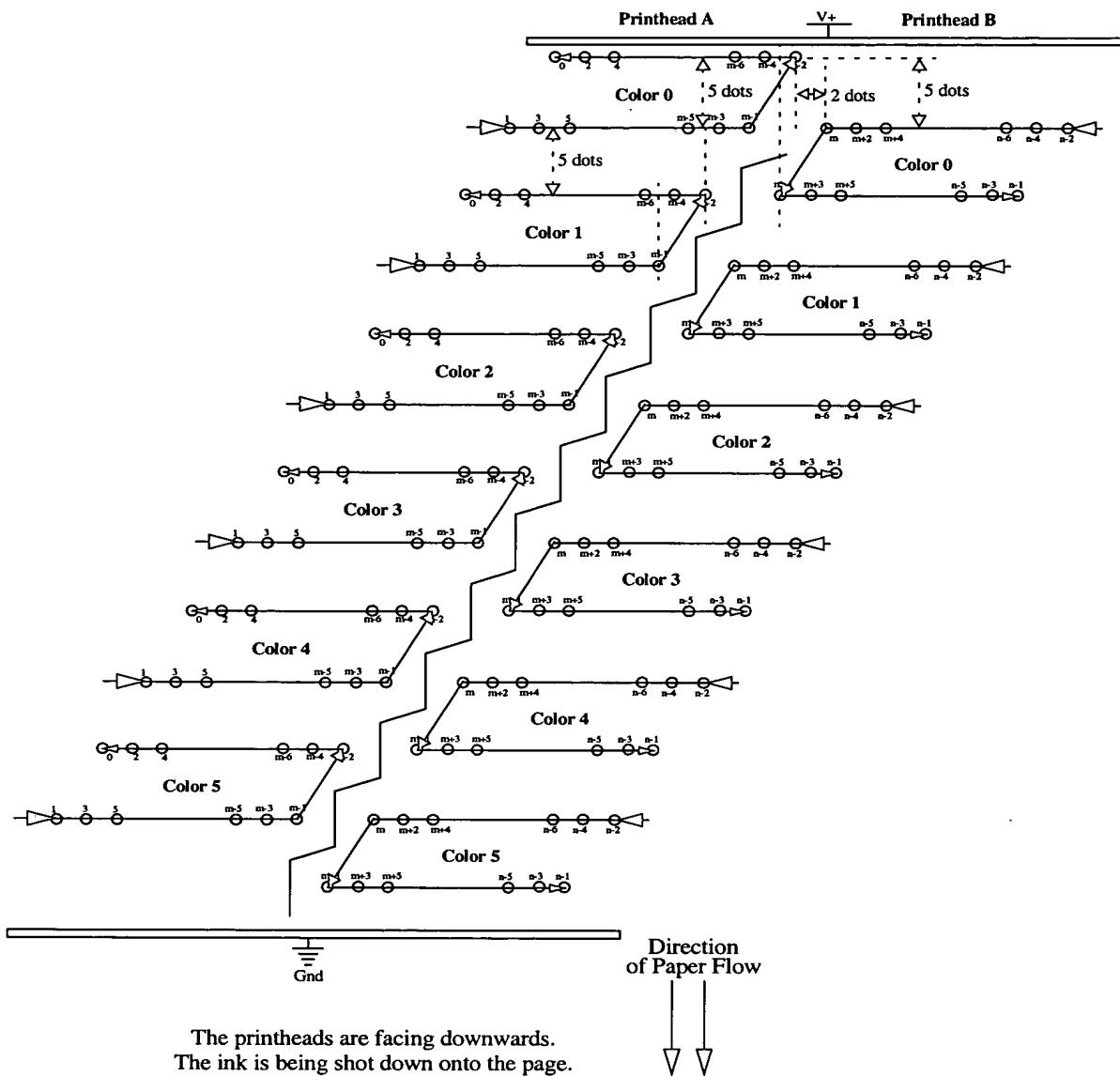


FIG. 297

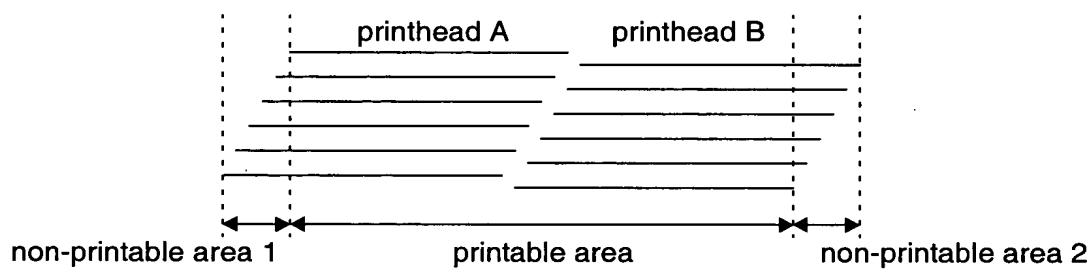
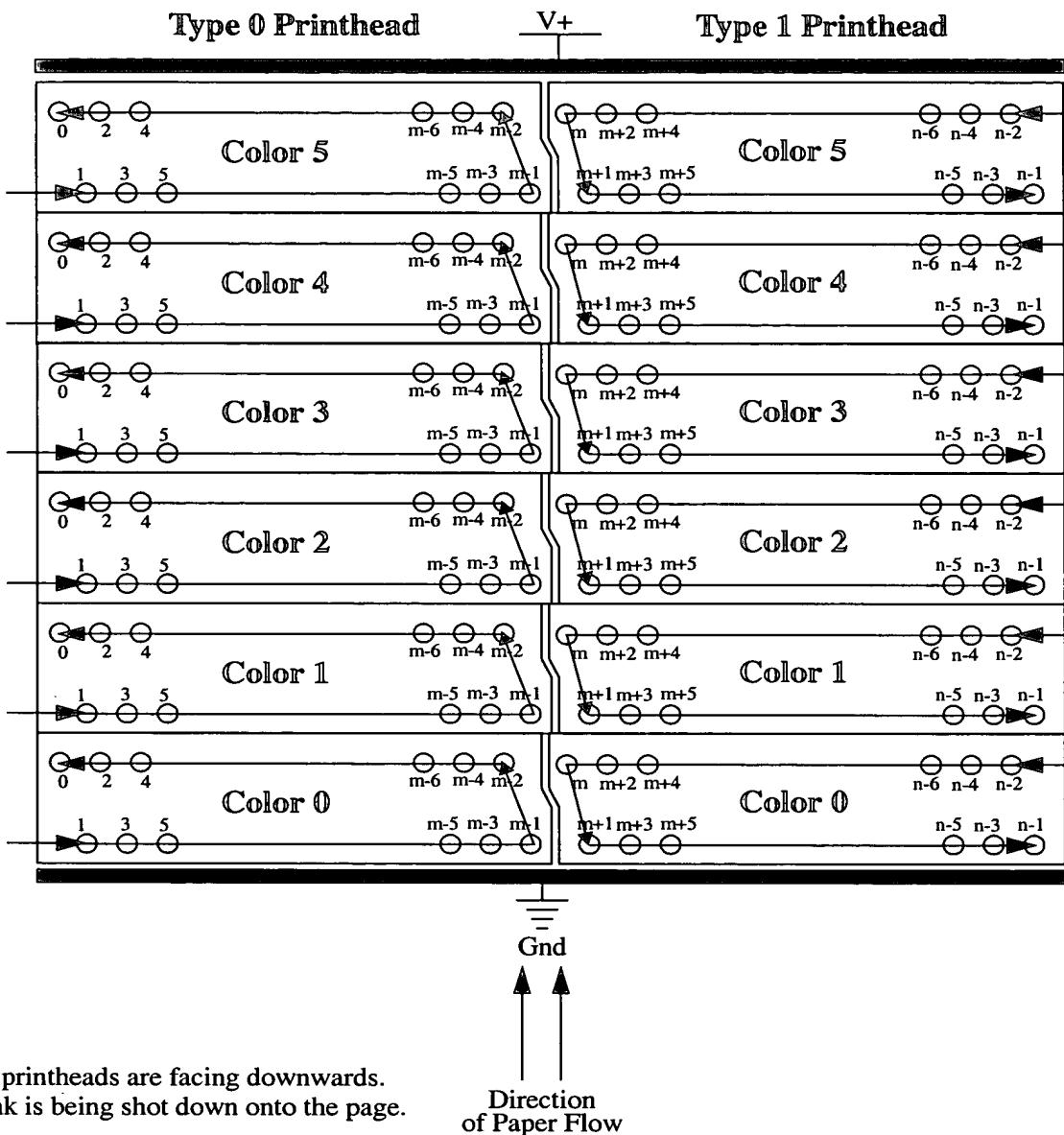


FIG. 298



The printheads are facing downwards.
The ink is being shot down onto the page.

FIG. 299

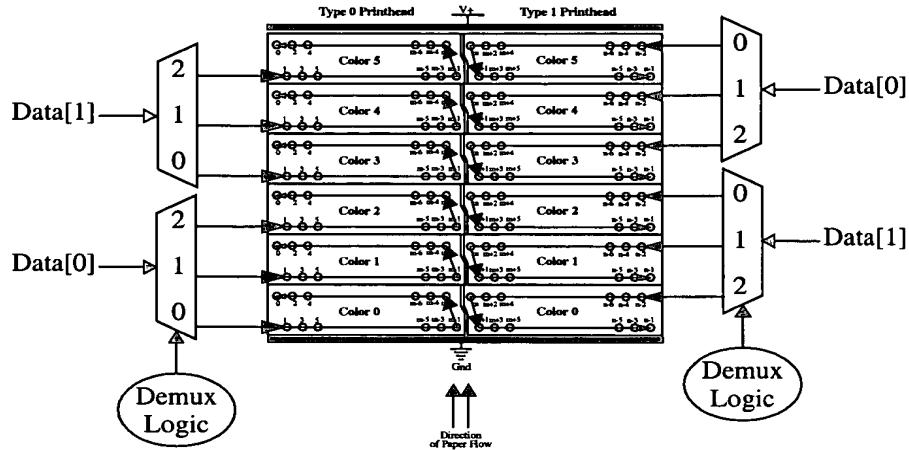


FIG. 300

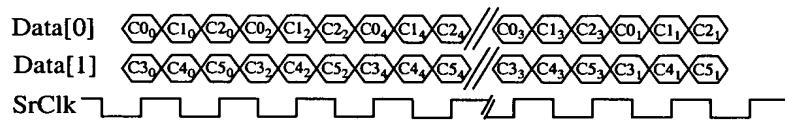


FIG. 301

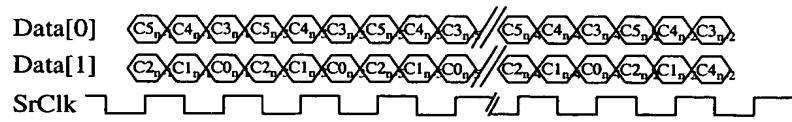


FIG. 302

The printheads are facing downwards.
The ink is being shot down onto the page.

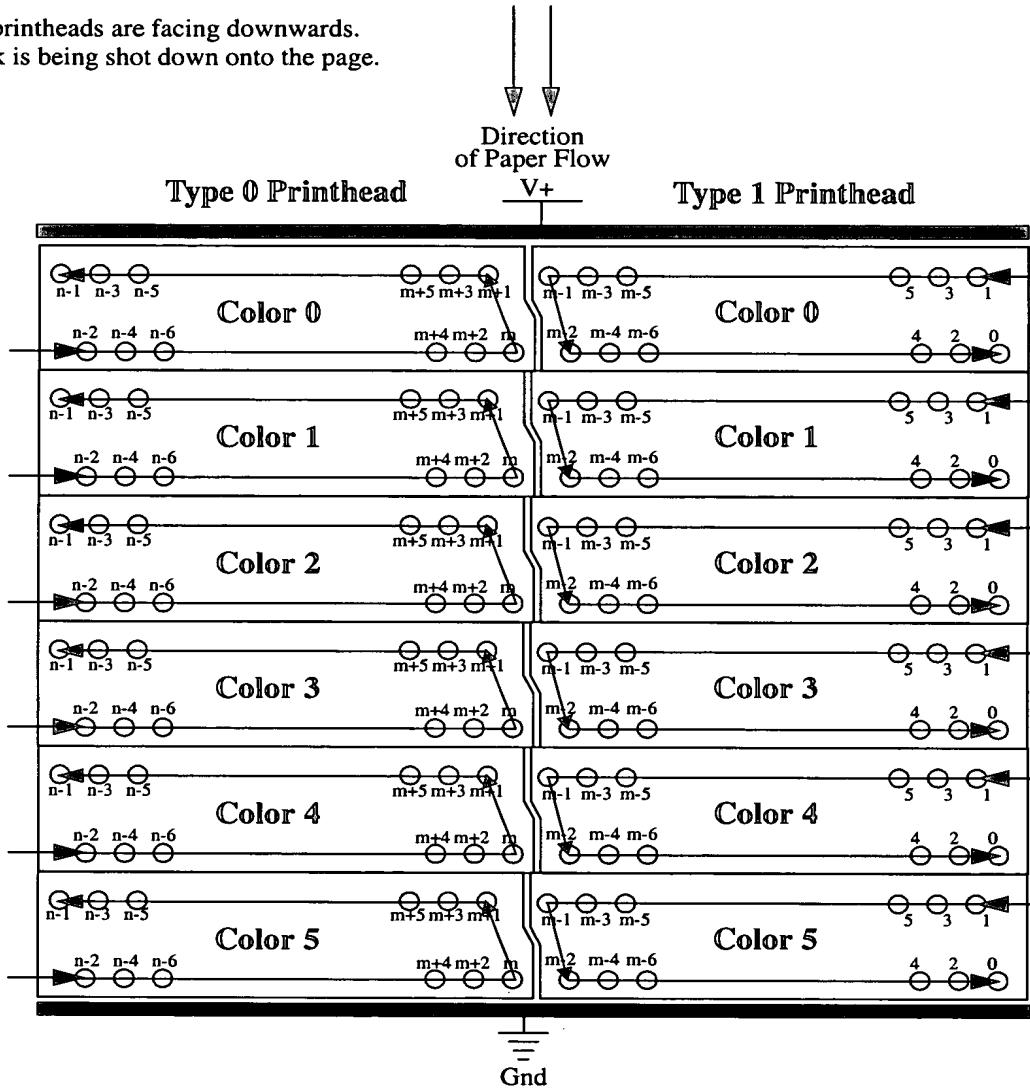


FIG. 303

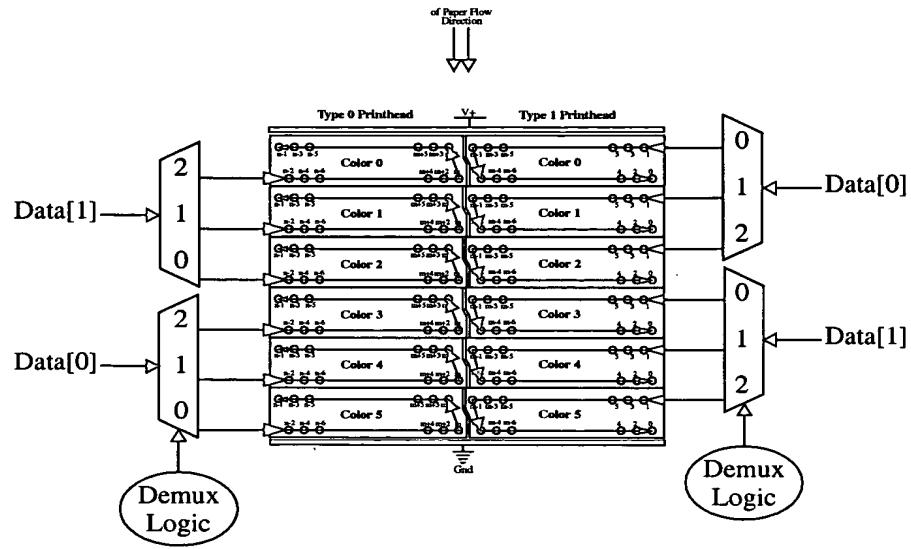


FIG. 304

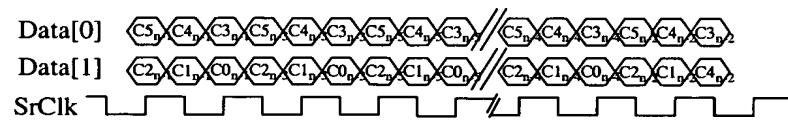


FIG. 305

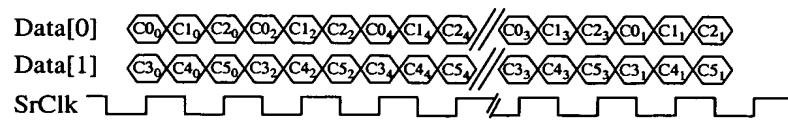


FIG. 306

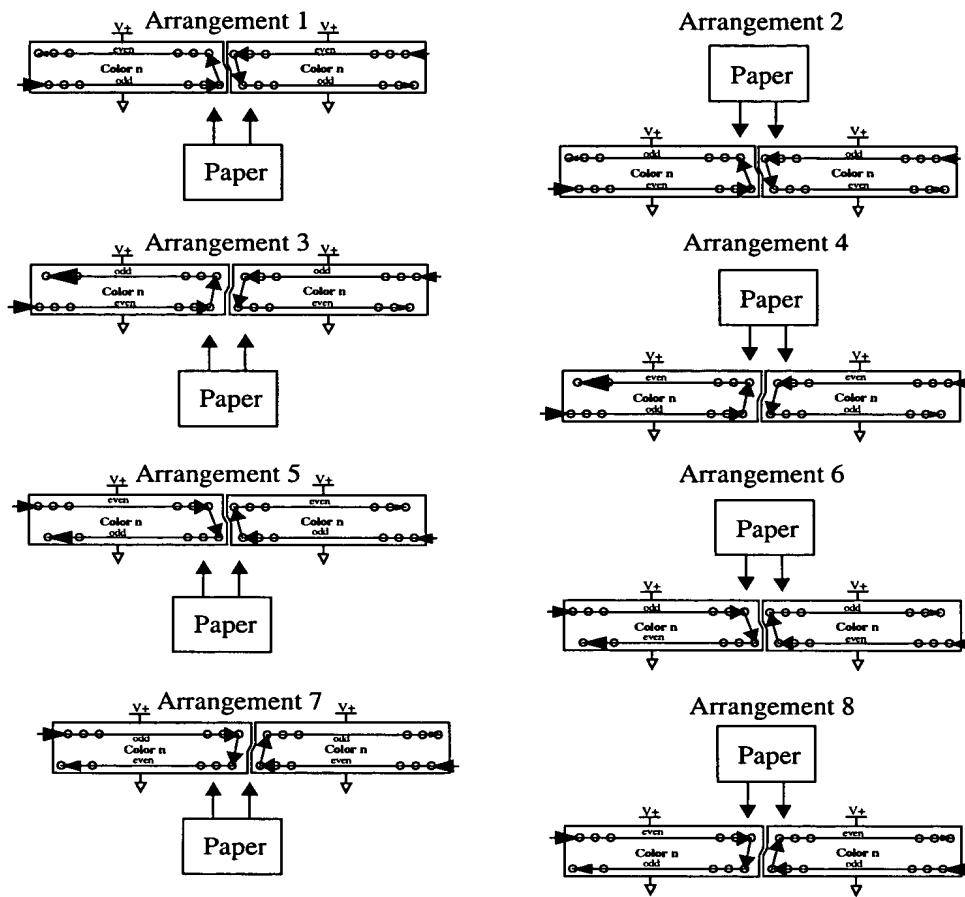


FIG. 307

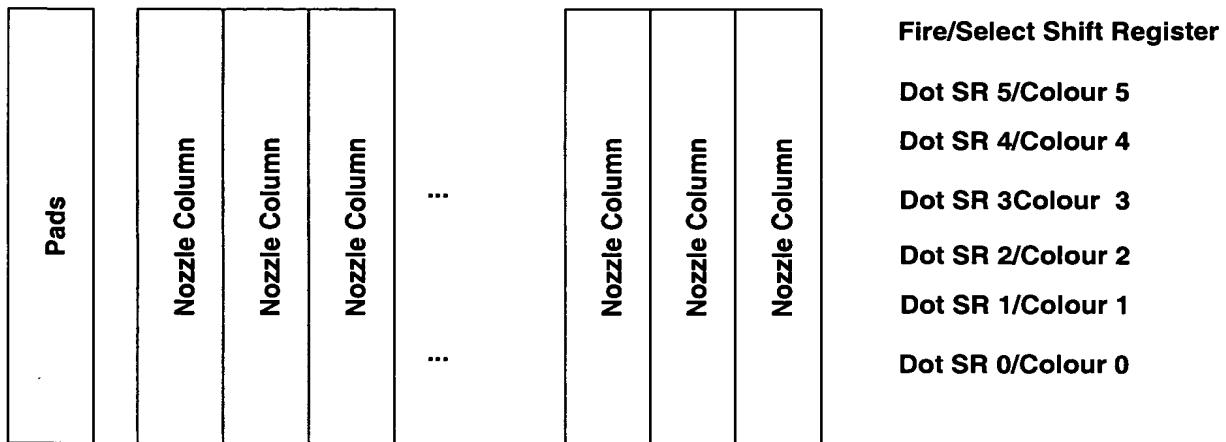


FIG. 308

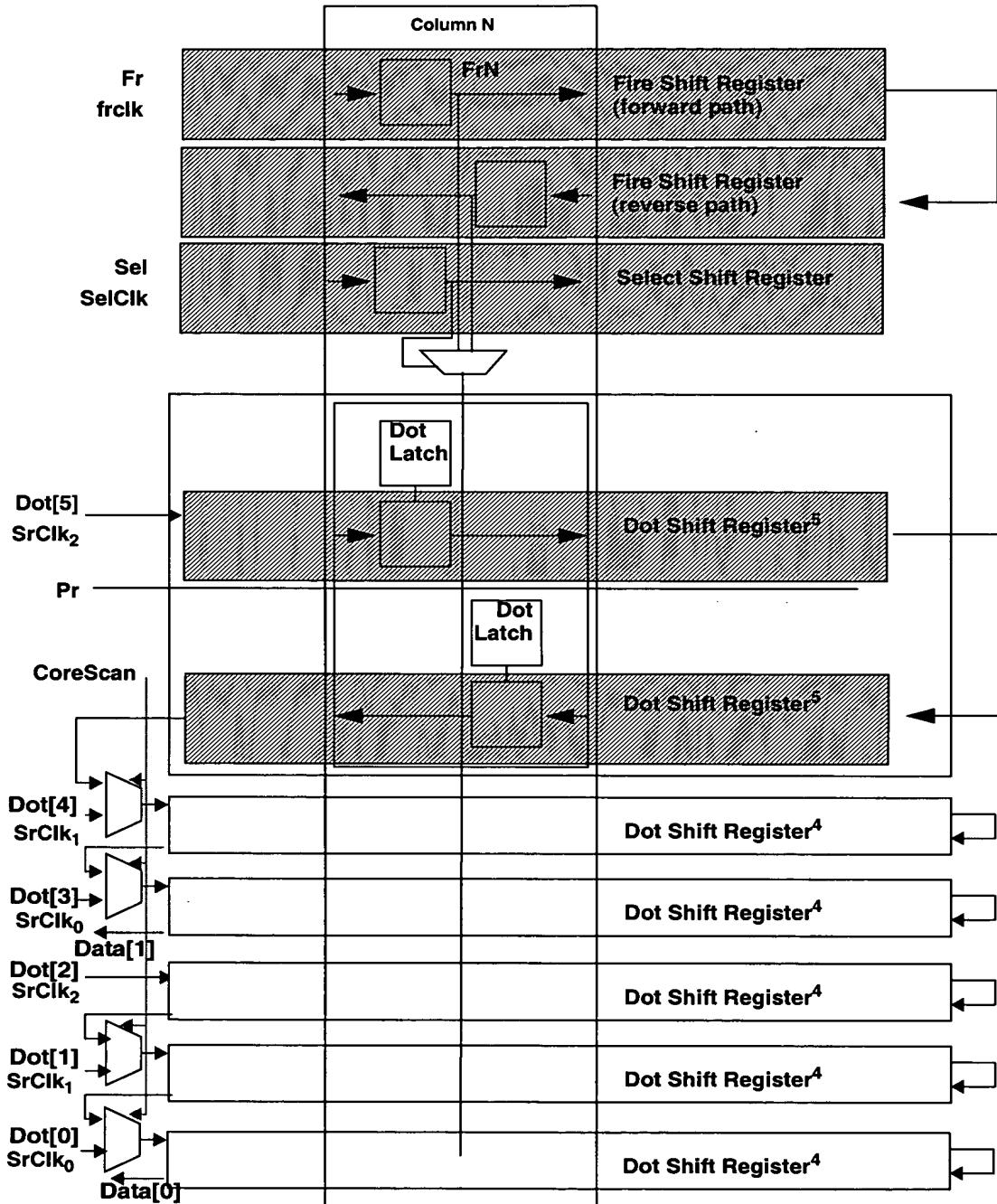


FIG. 309

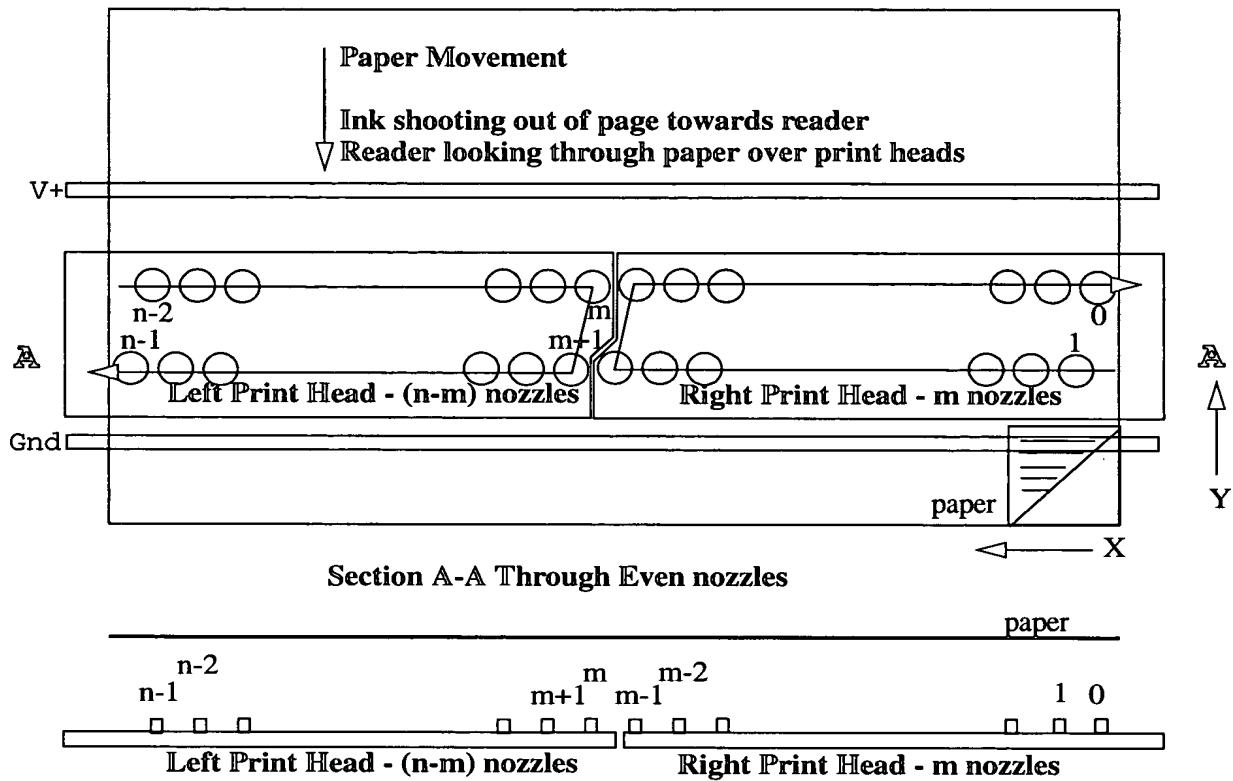


FIG. 310

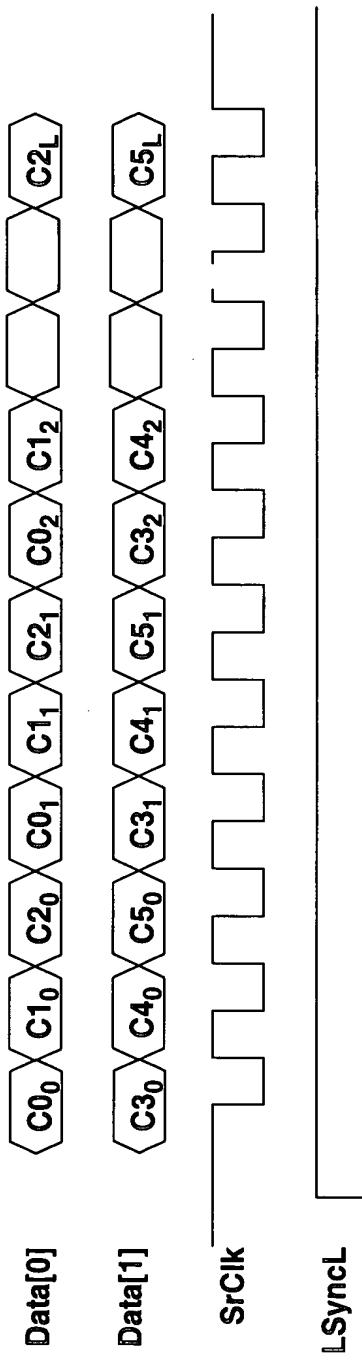
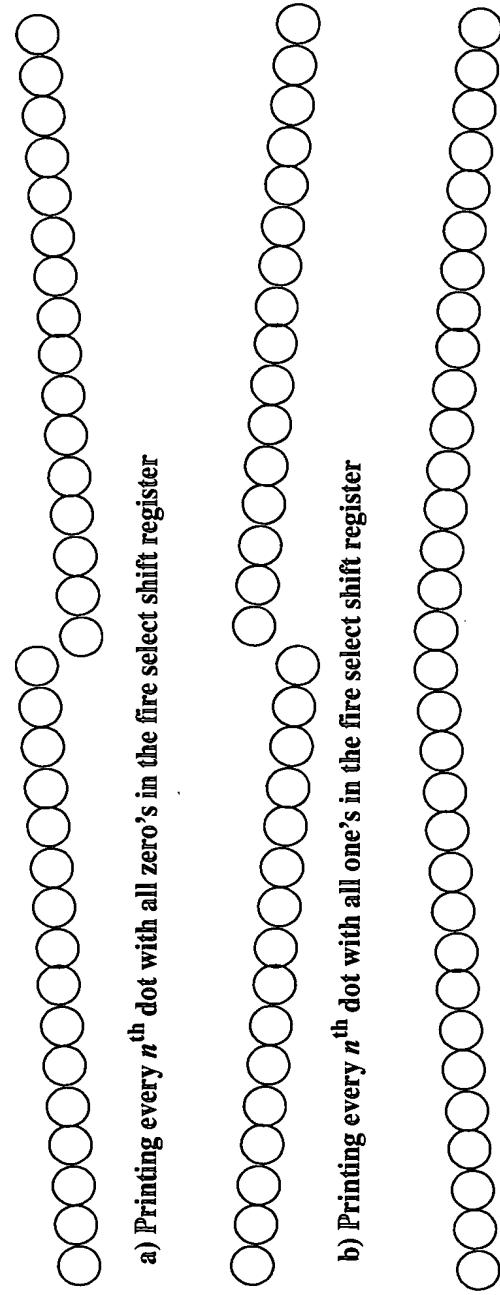


FIG. 311



a) Printing every n^{th} dot with all zero's in the fire select shift register

b) Printing every n^{th} dot with all one's in the fire select shift register

c) Printing every n^{th} dot with n zero's then n one's in the fire select shift registers

FIG. 312

FIG. 313

..1000000.....0001000000.....0001000000.....0001000000.....000
 ..0000000.....0010000000.....0010000000.....0010000000.....001
 ..0000000.....0001111111.....0001111111.....0001111111.....111 select shift reg

FIG. 314

..1000000.....0001000000.....0001000000.....0001000000.....000
 ..0000000.....0010000000.....0010000000.....0010000000.....001
 ..0000000.....0001111111.....0001111111.....0001111111.....111
 Left Print Head Fire/Select SR
 Right Print Head Fire/Select SR

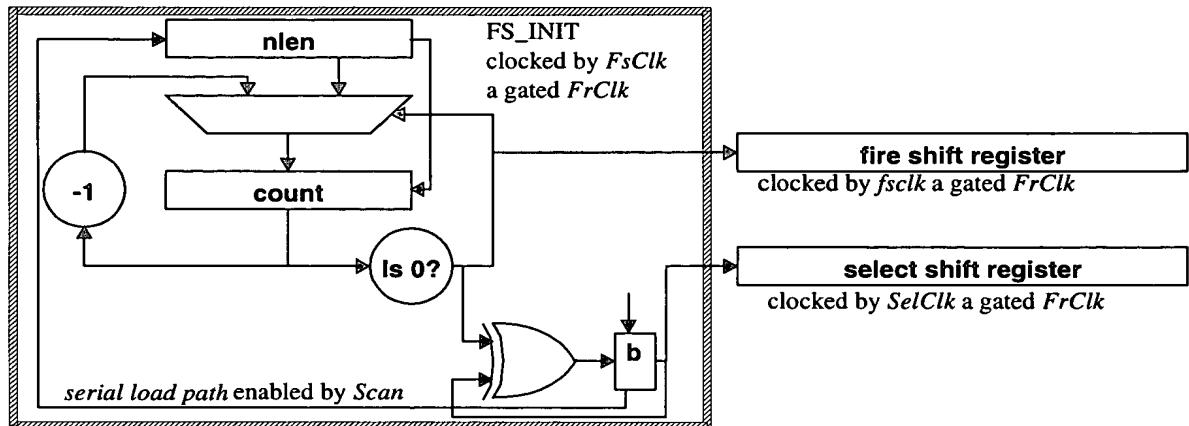


FIG. 315

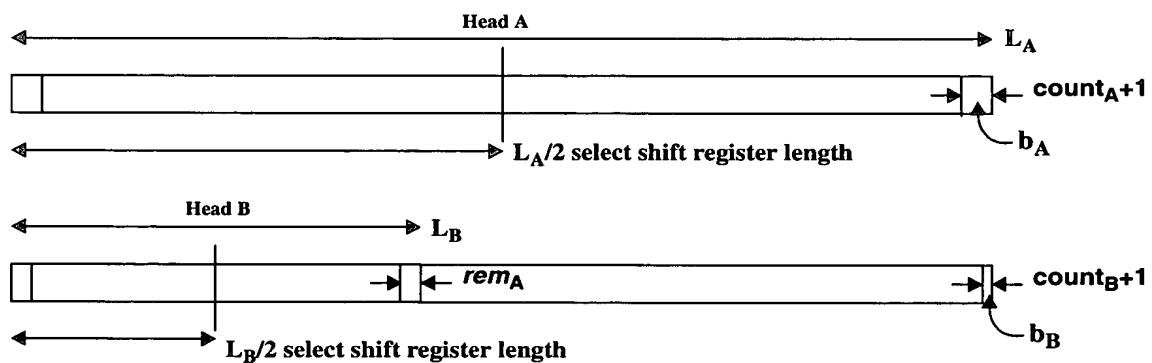


FIG. 316

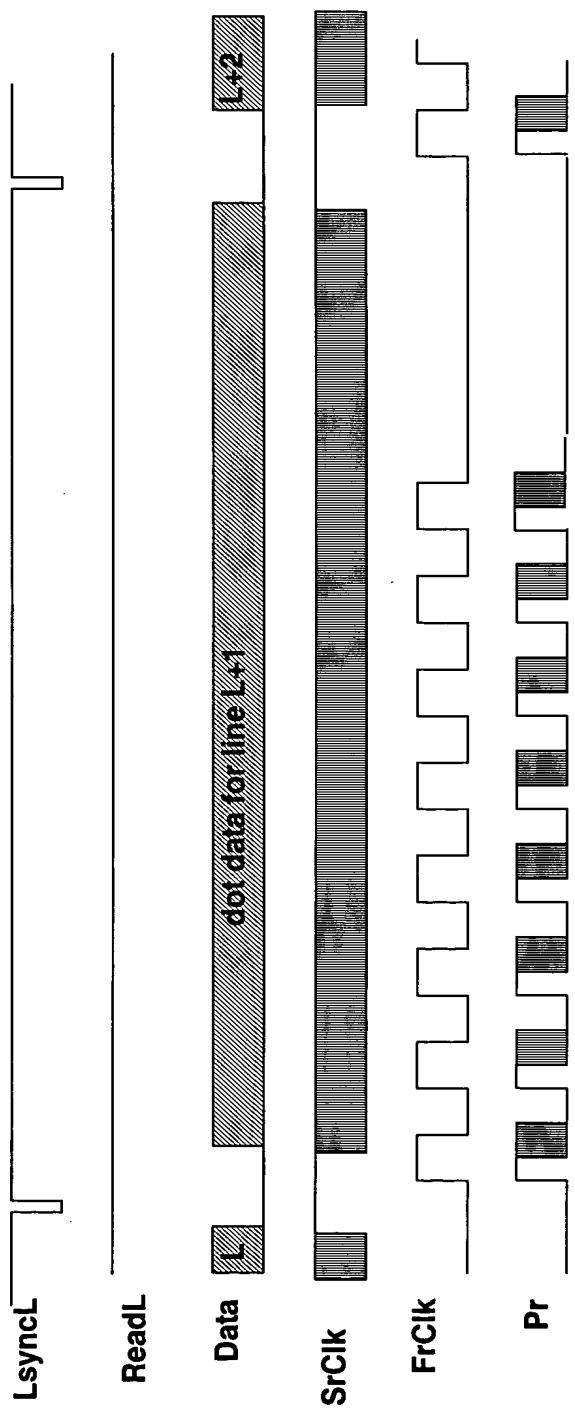


FIG. 317

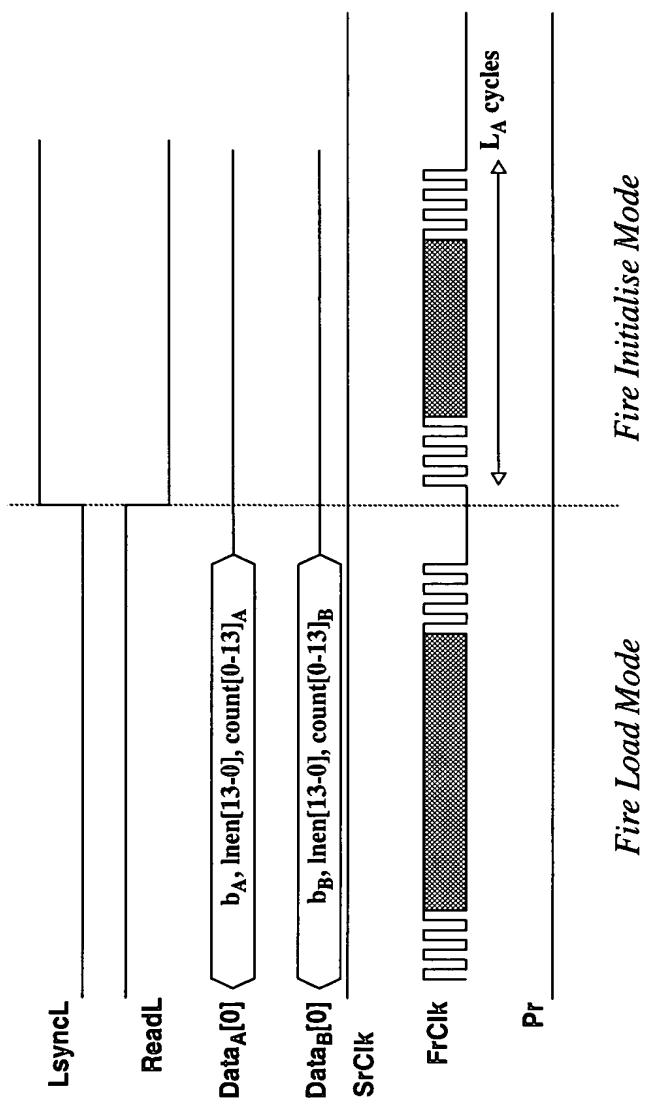


FIG. 318

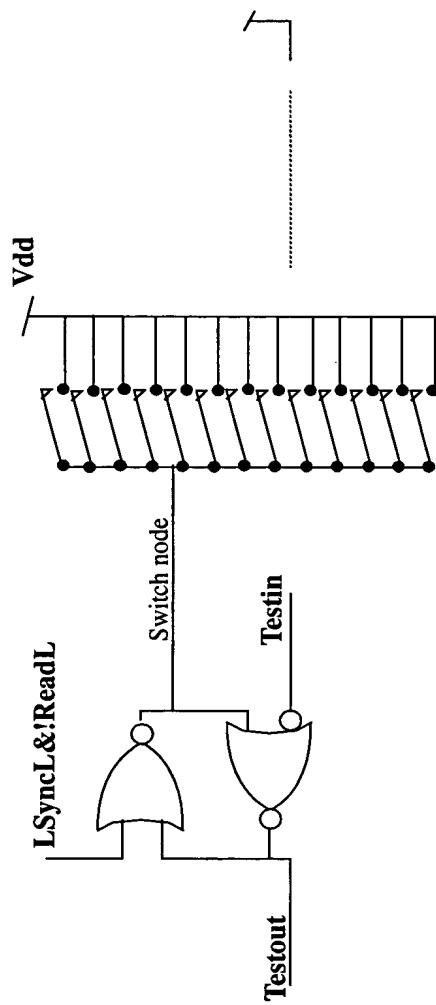


FIG. 319

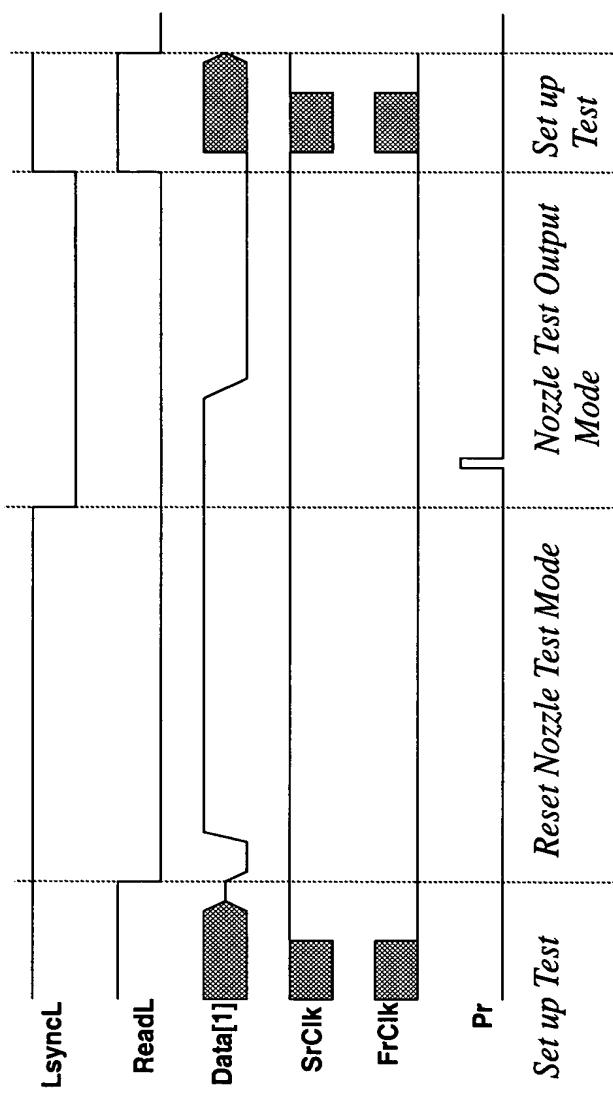


FIG. 320

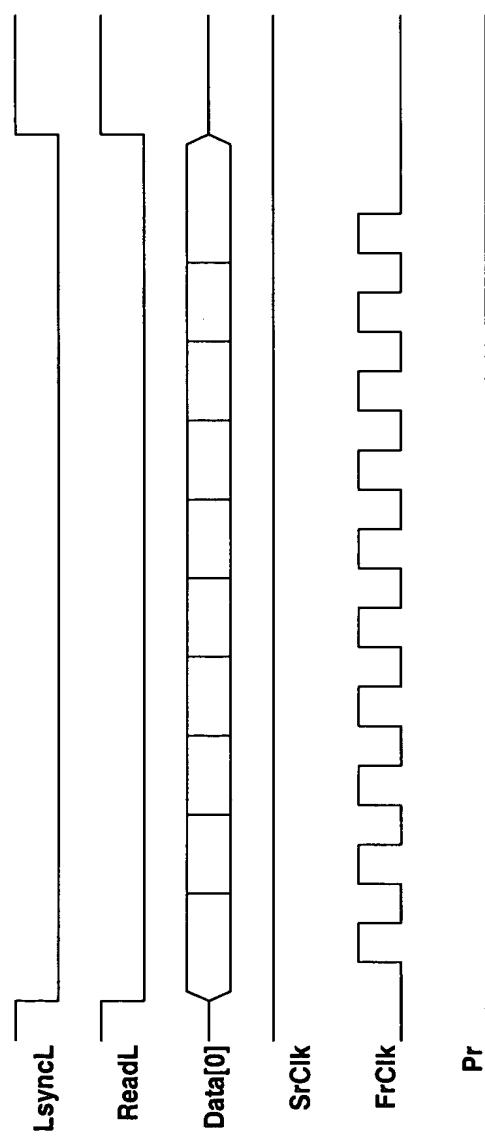


FIG. 321

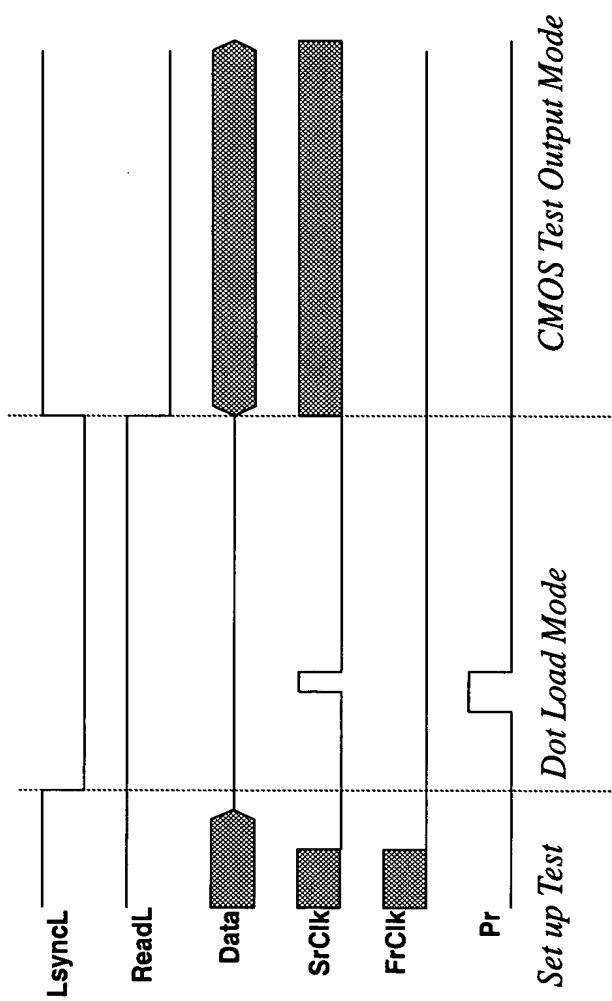


FIG. 322

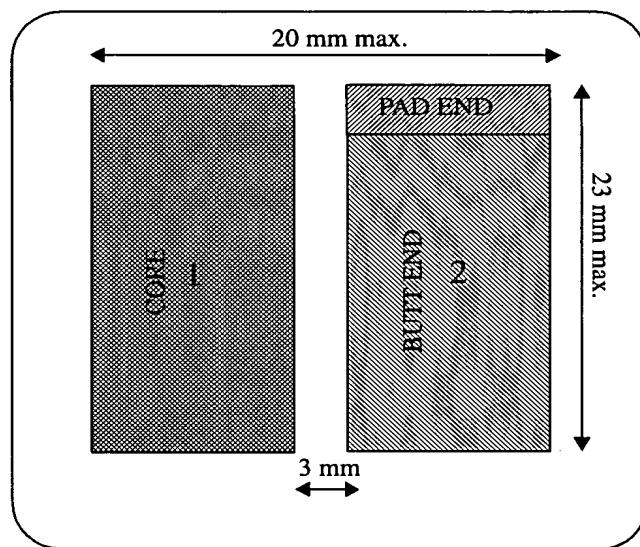


FIG. 323

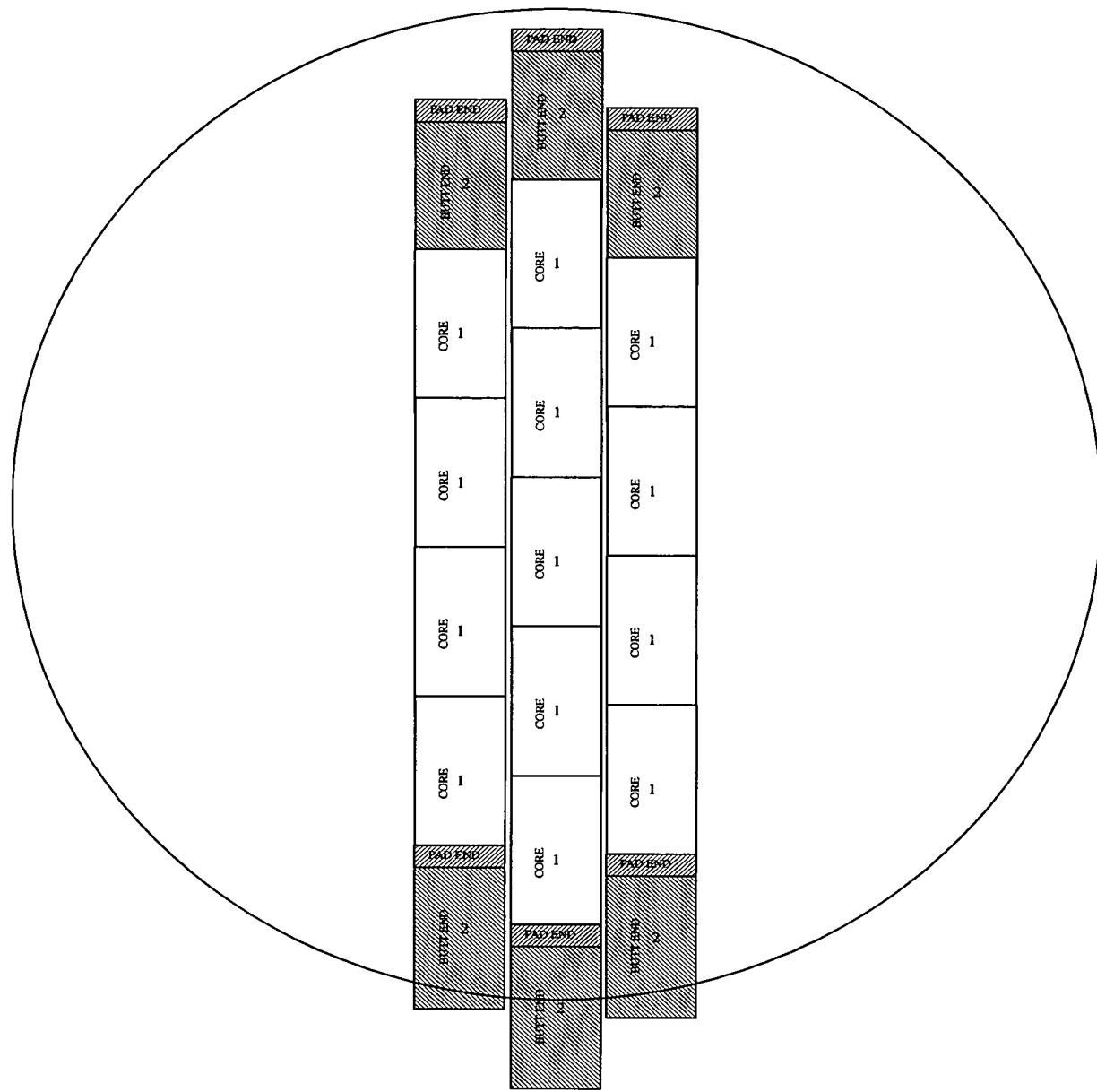


FIG. 324

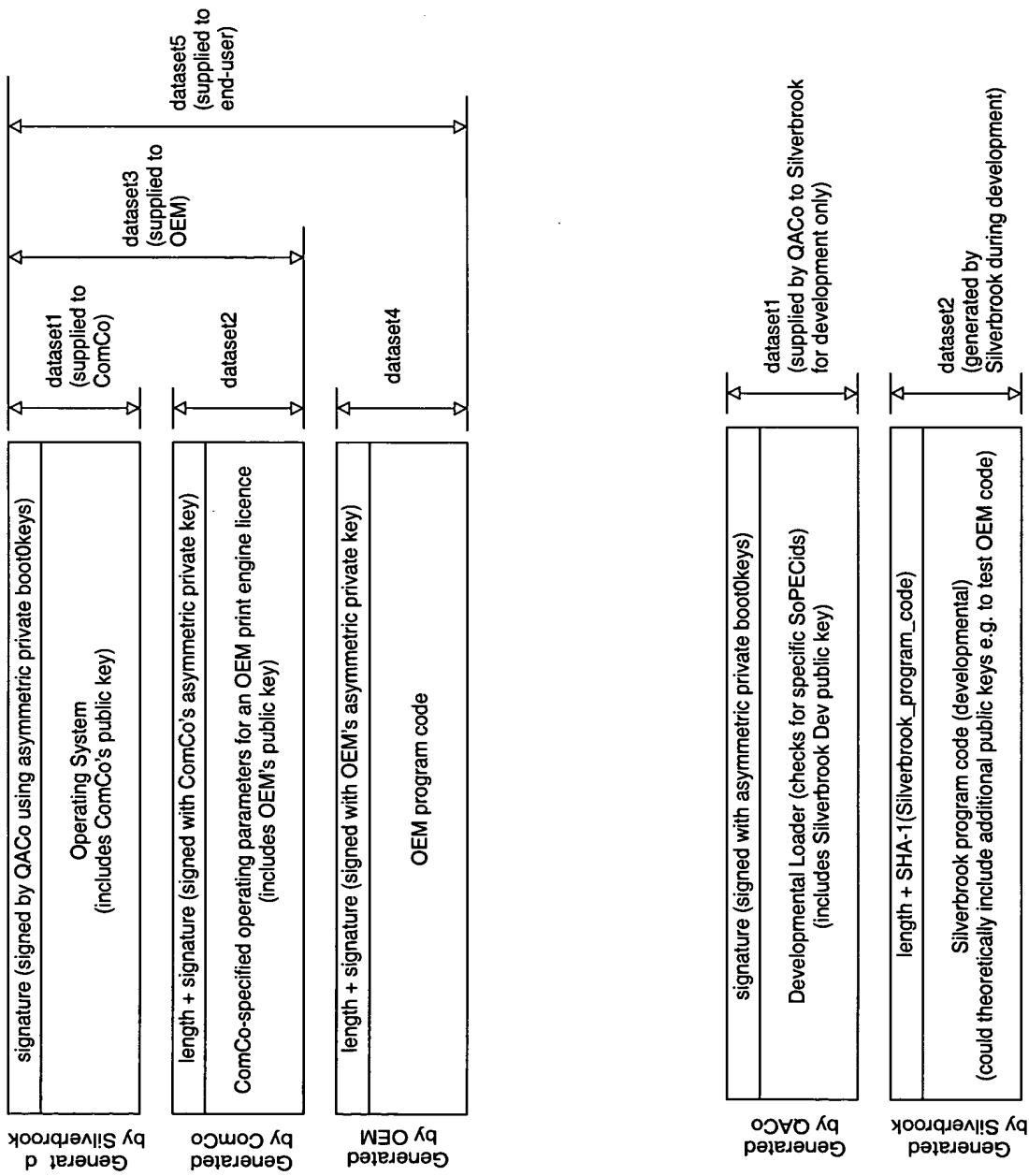


FIG. 325

FIG. 327

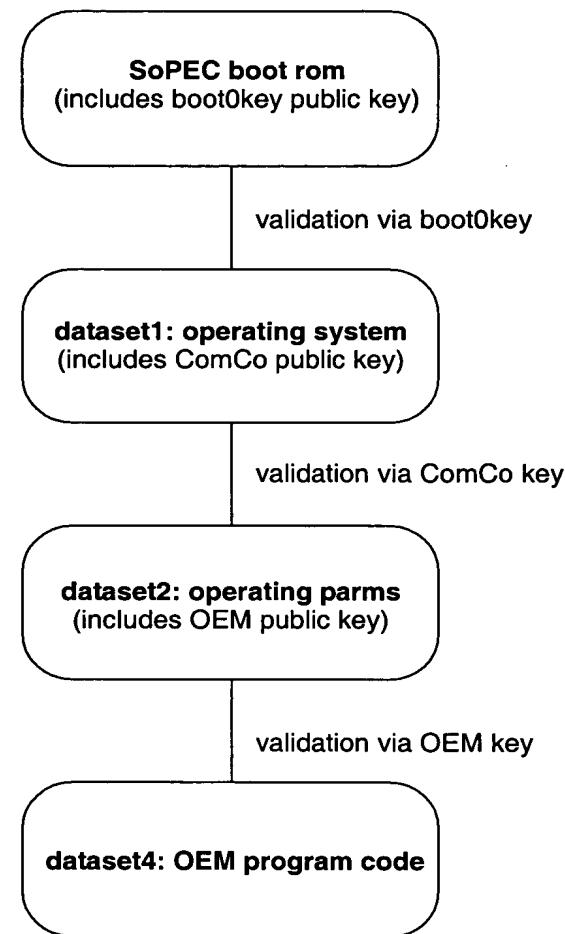


FIG. 326

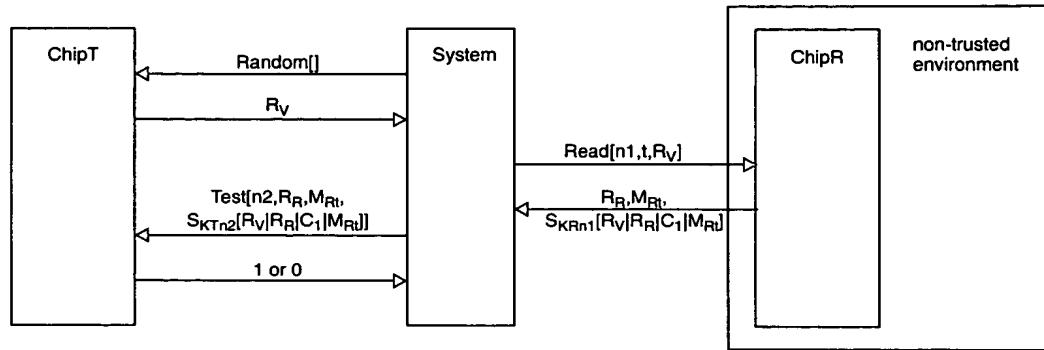


FIG. 328

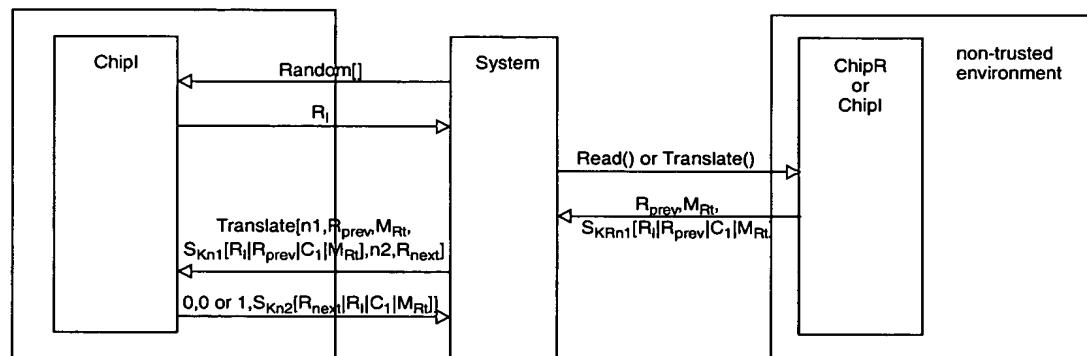


FIG. 329

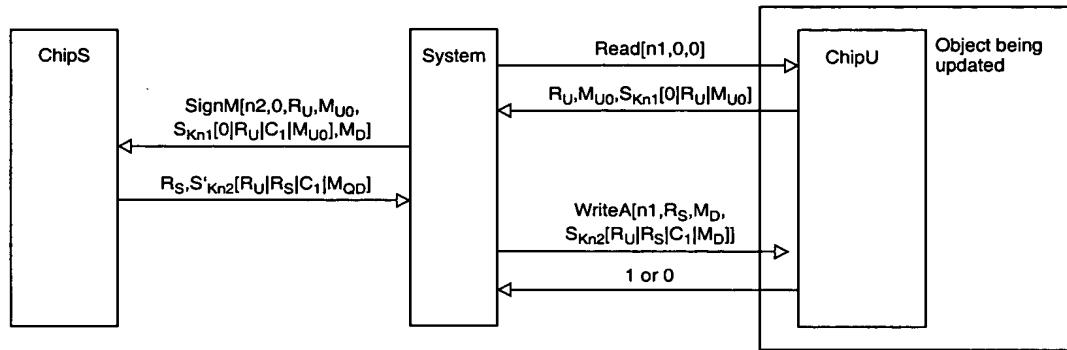


FIG. 330

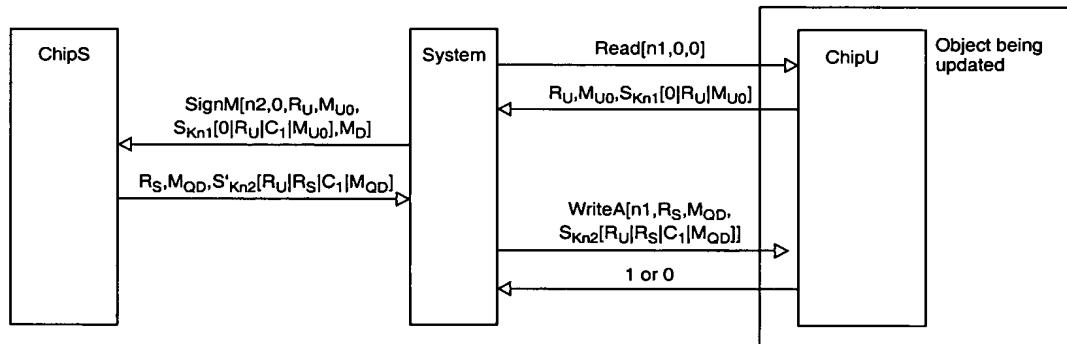


FIG. 331

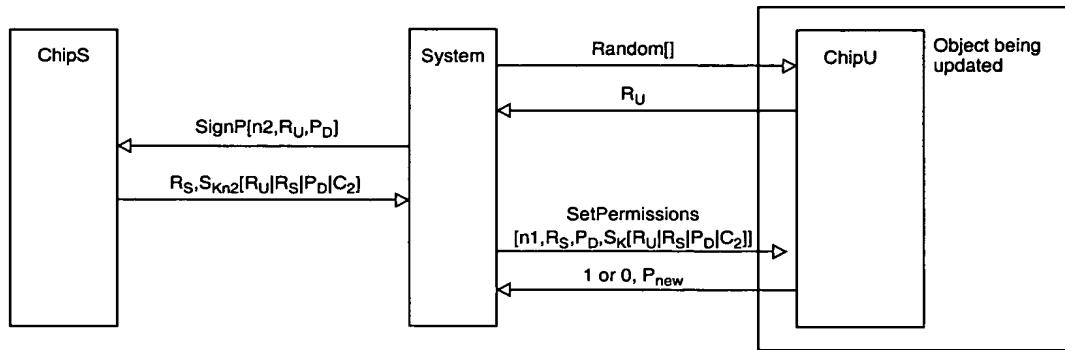


FIG. 332

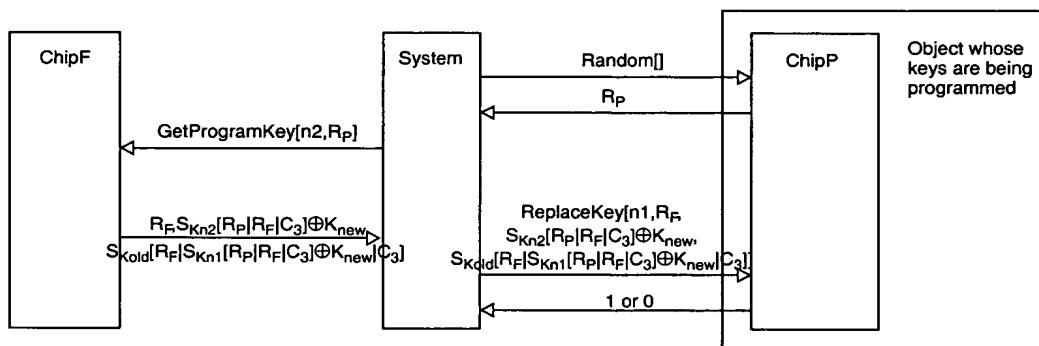


FIG. 333

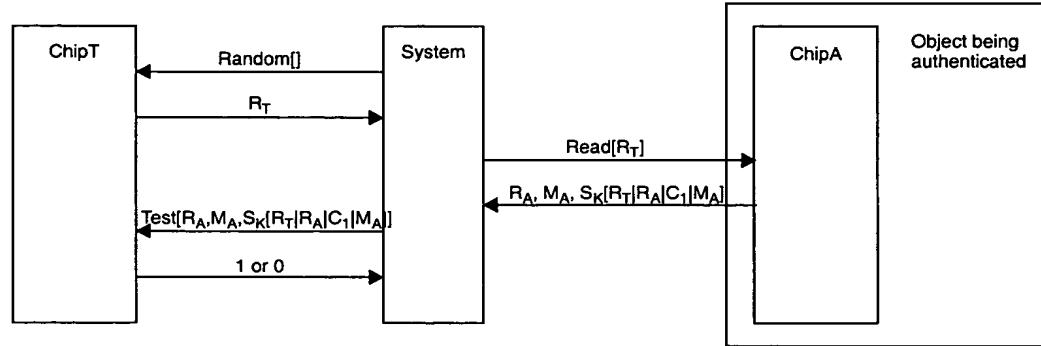


FIG. 334

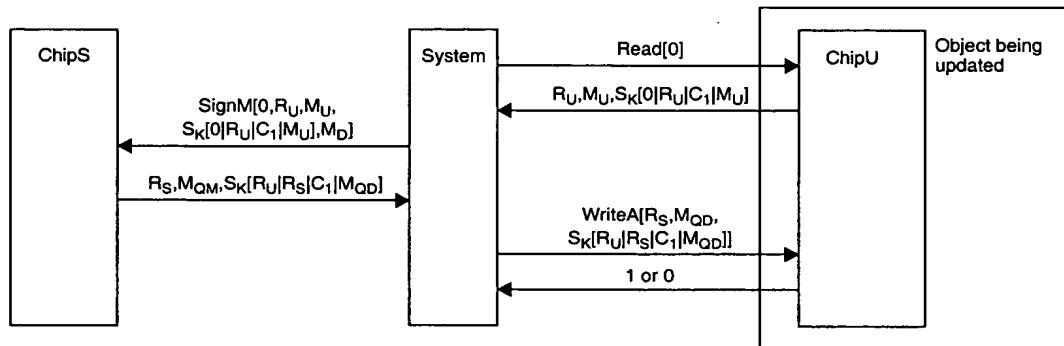


FIG. 335

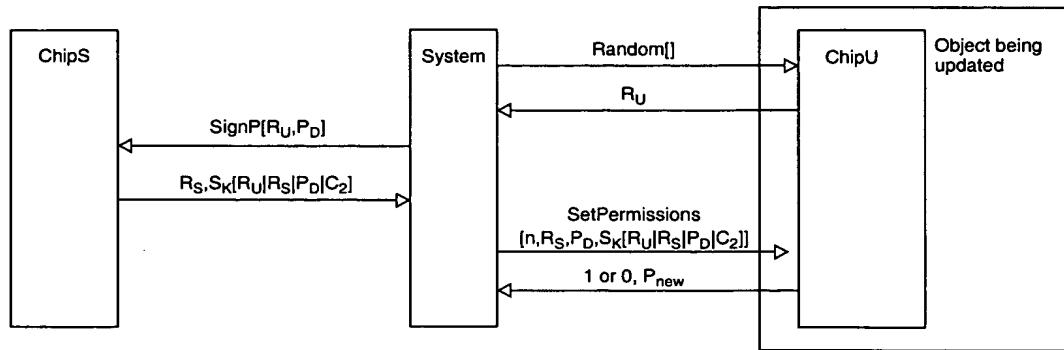


FIG. 336

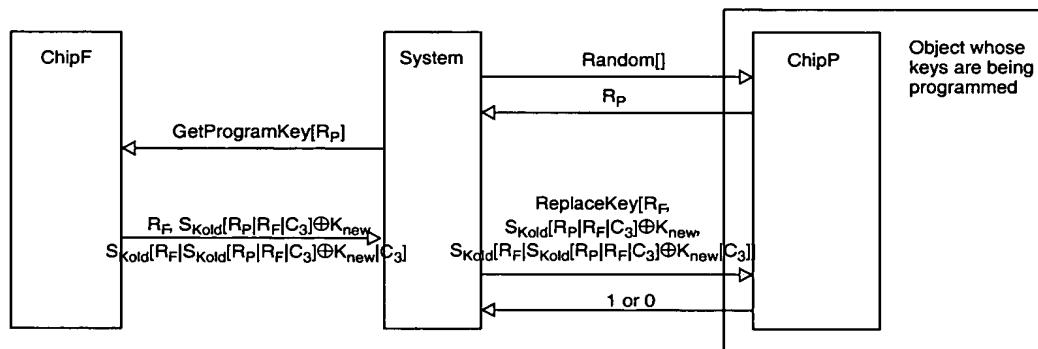


FIG. 337

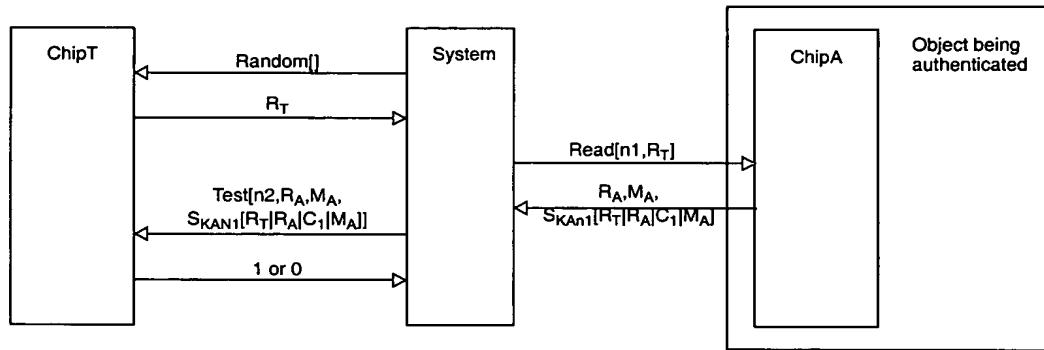


FIG. 338

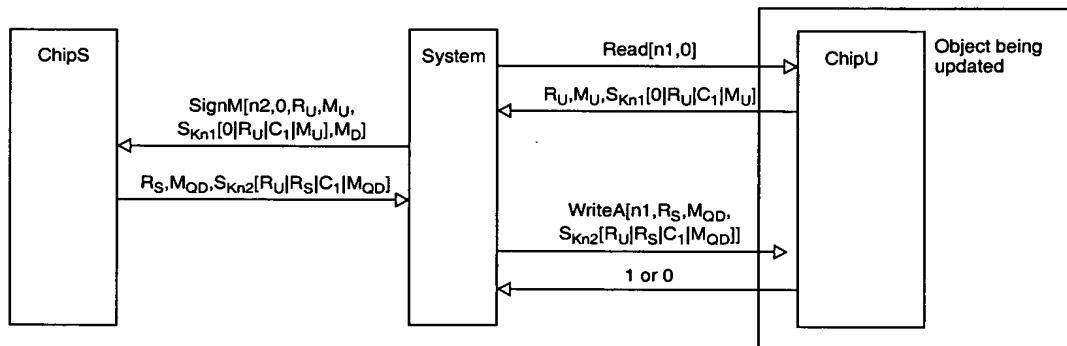


FIG. 339

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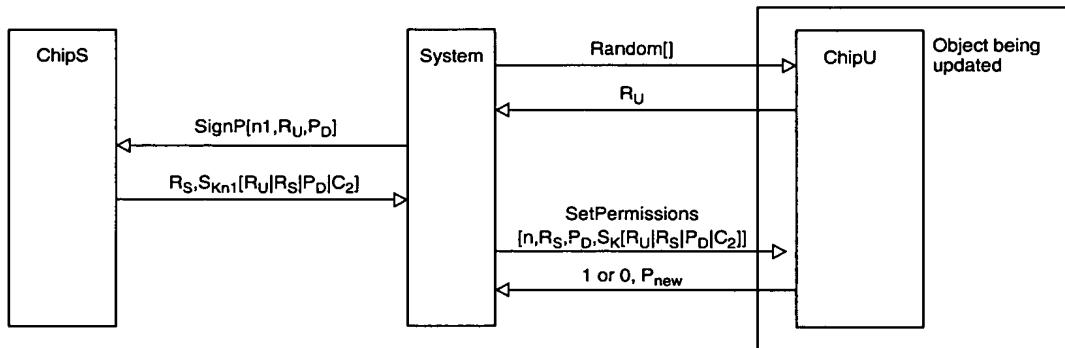


FIG. 340

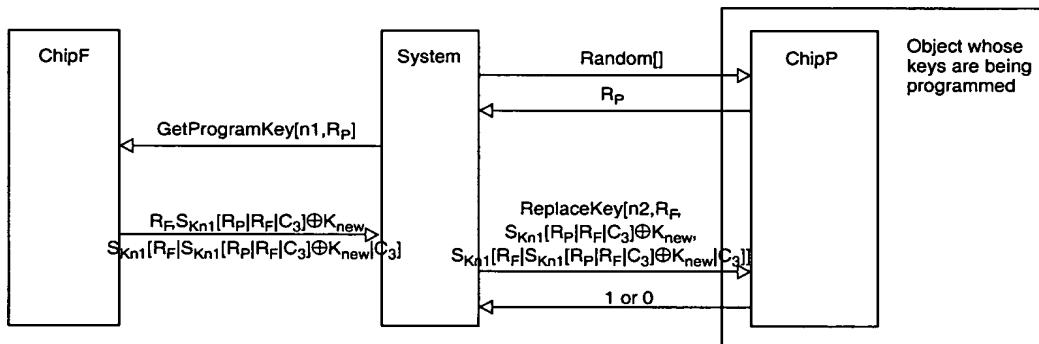


FIG. 341

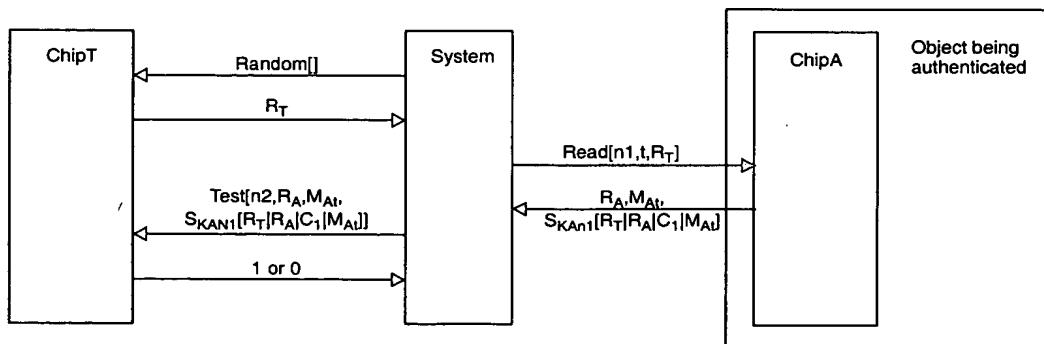


FIG. 342

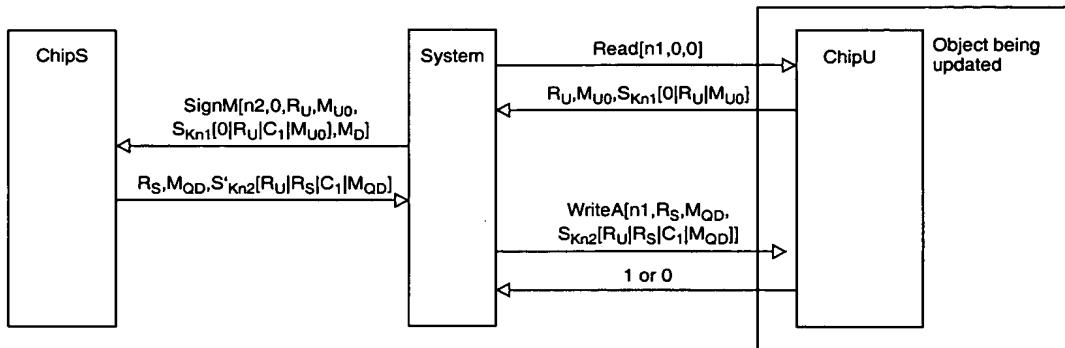


FIG. 343

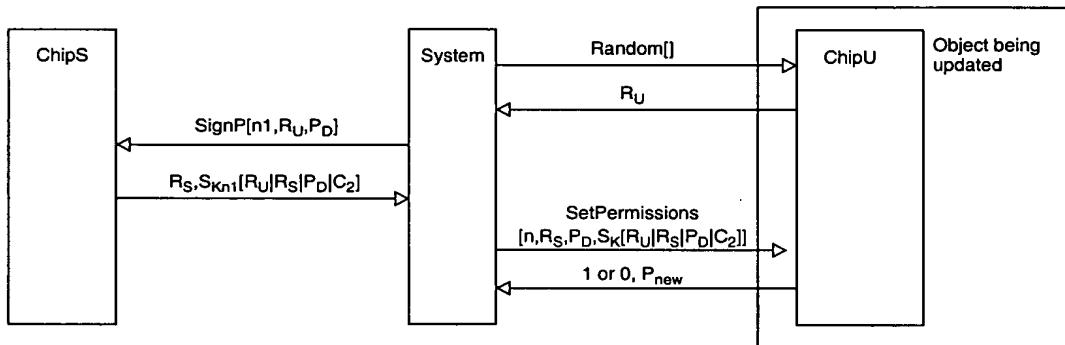


FIG. 344

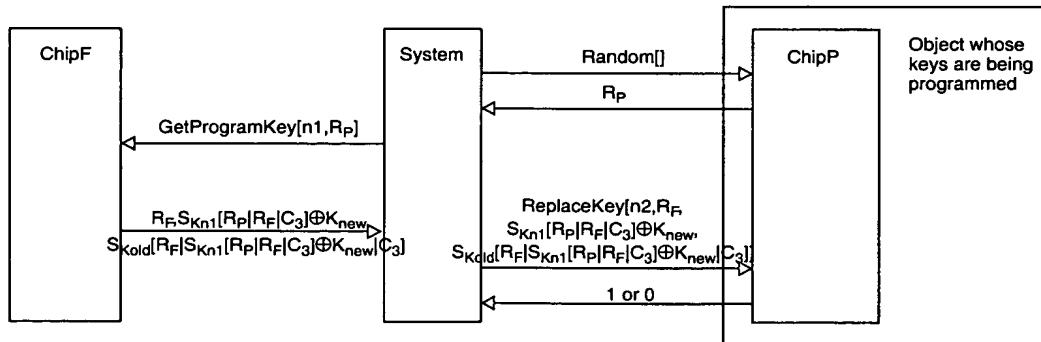


FIG. 345

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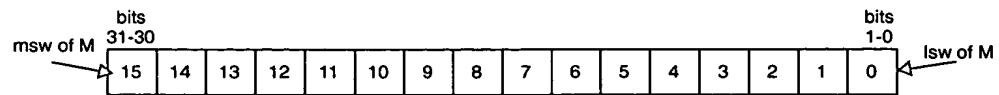


FIG. 346

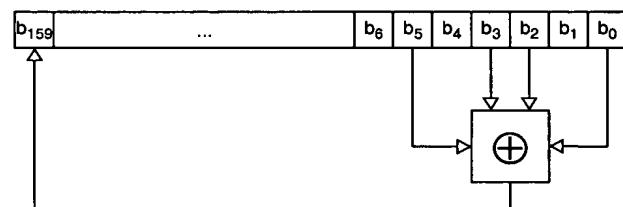


FIG. 347

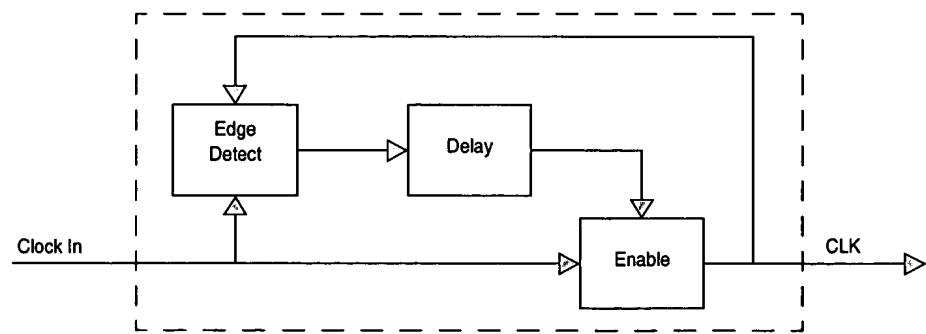


FIG. 348

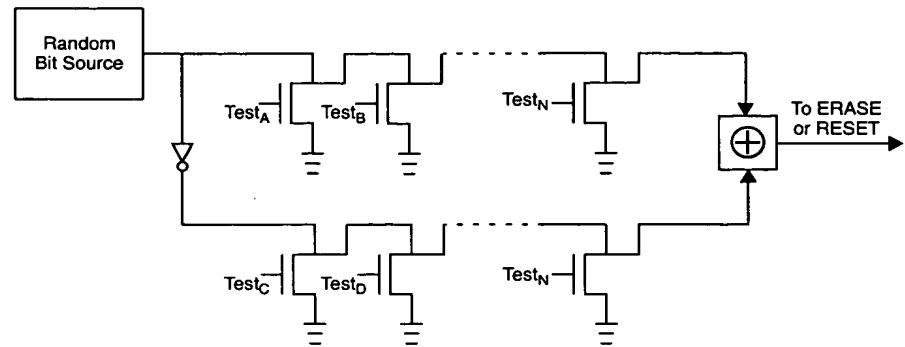


FIG. 349

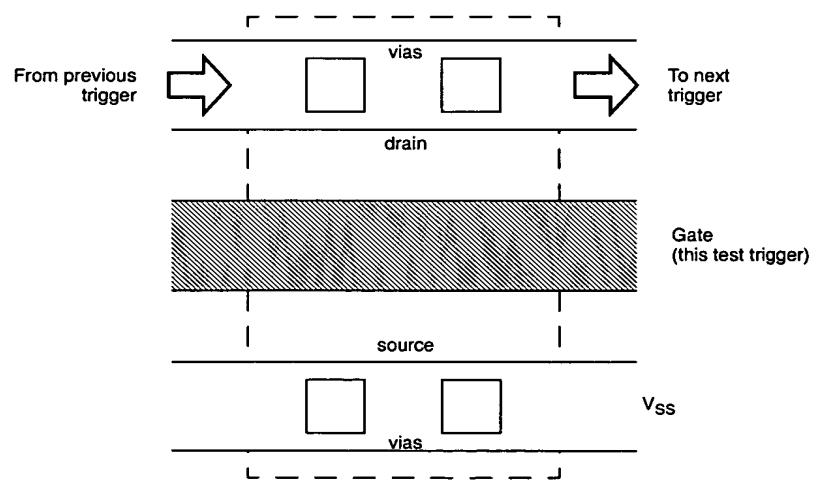


FIG. 350

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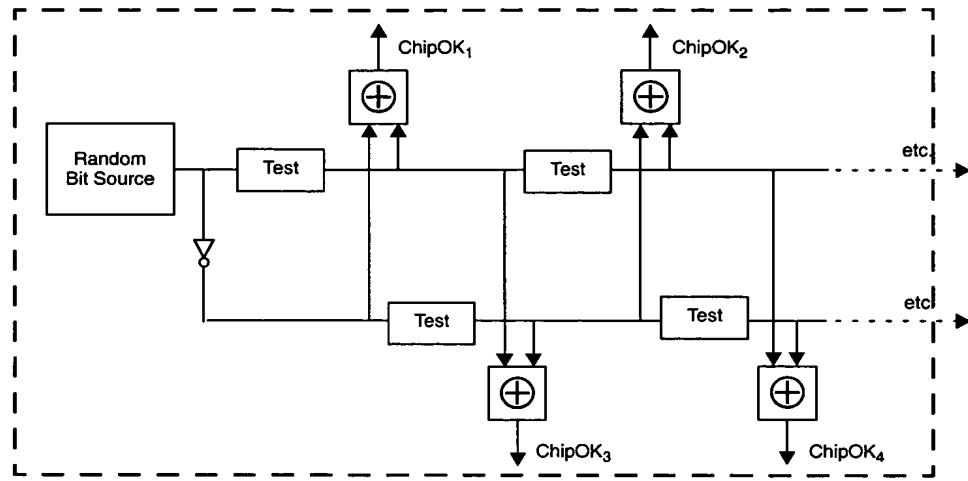


FIG. 351

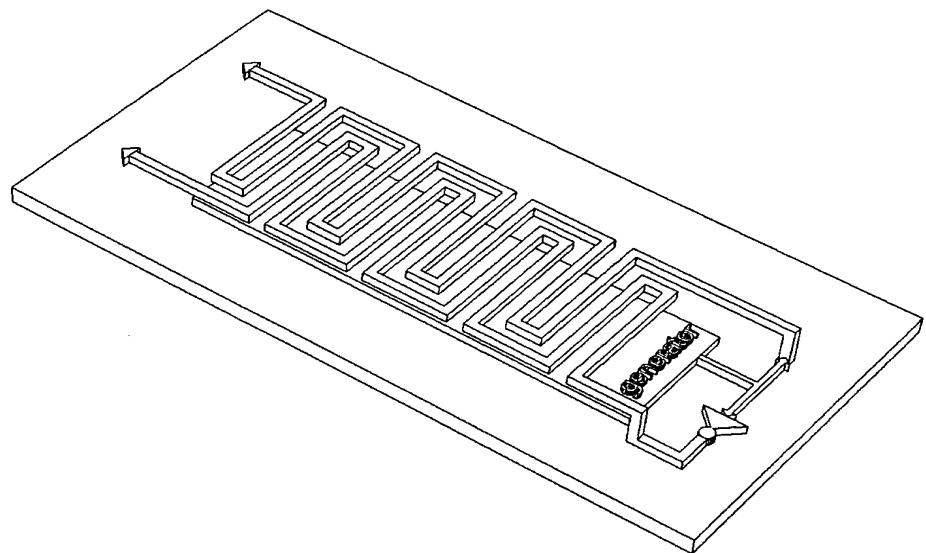


FIG. 352

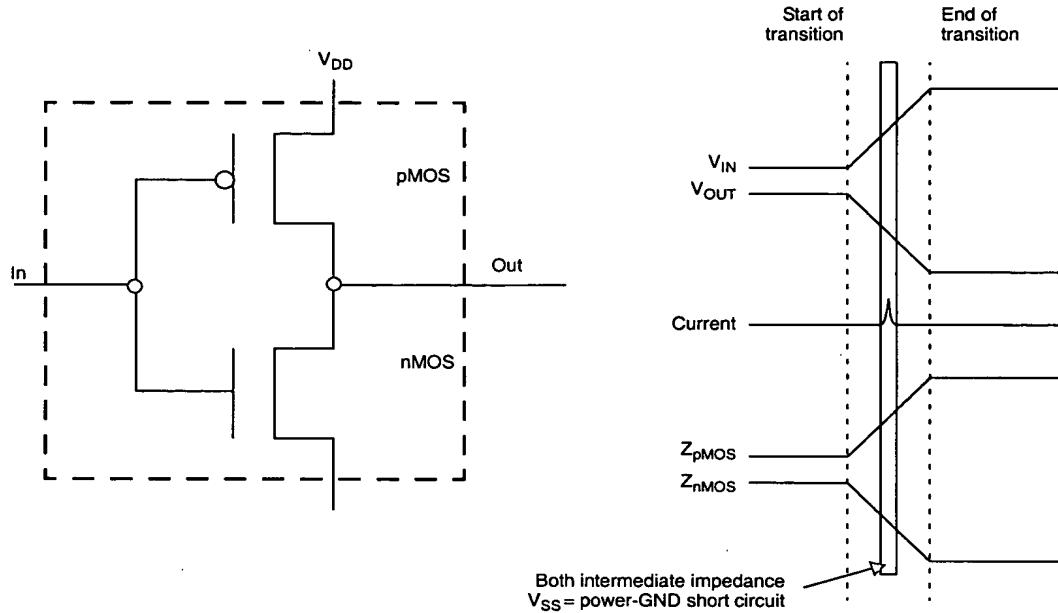


FIG. 353

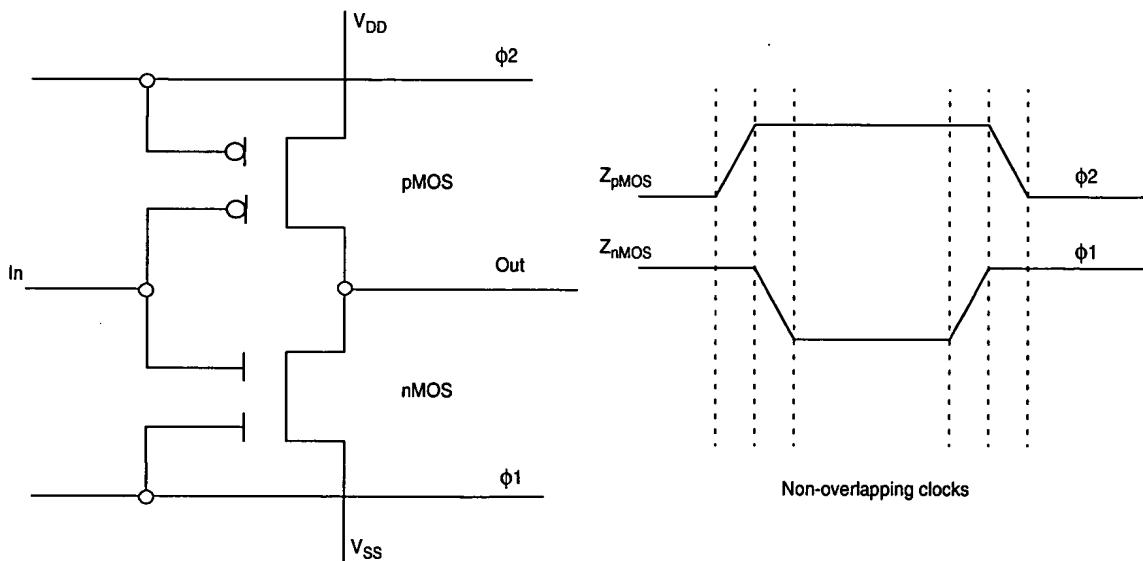


FIG. 354

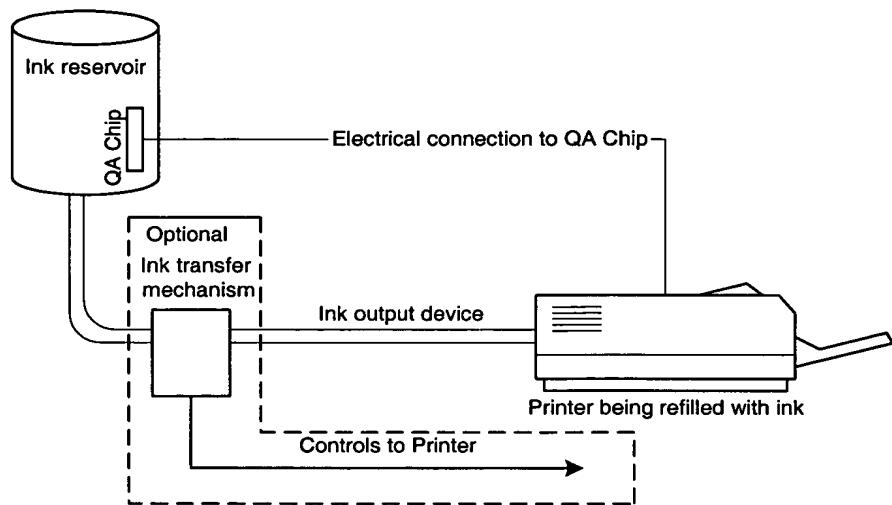


FIG. 355

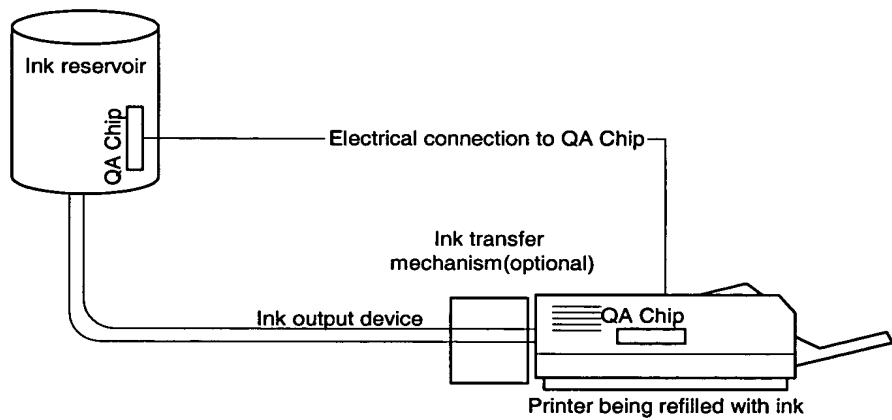


FIG. 356

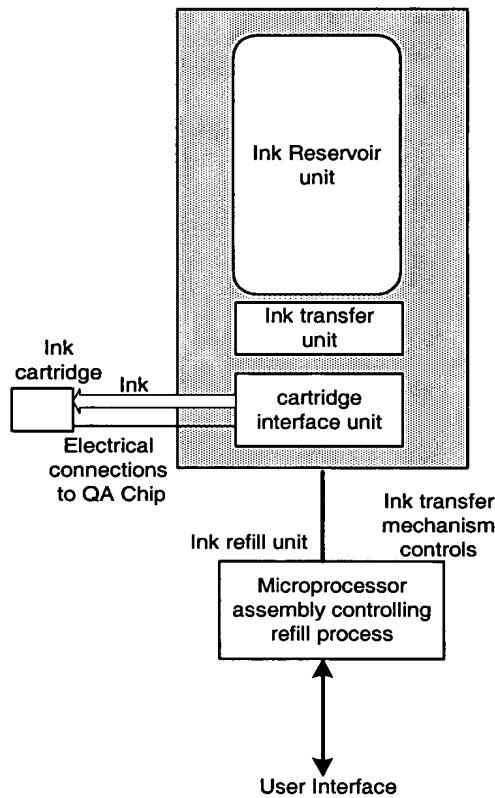


FIG. 357

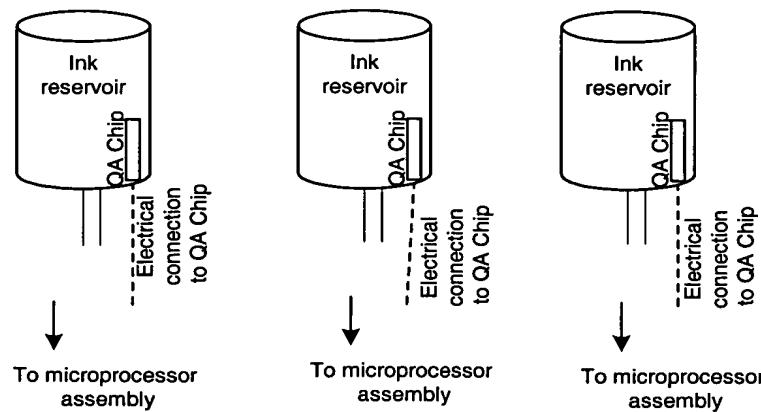


FIG. 358

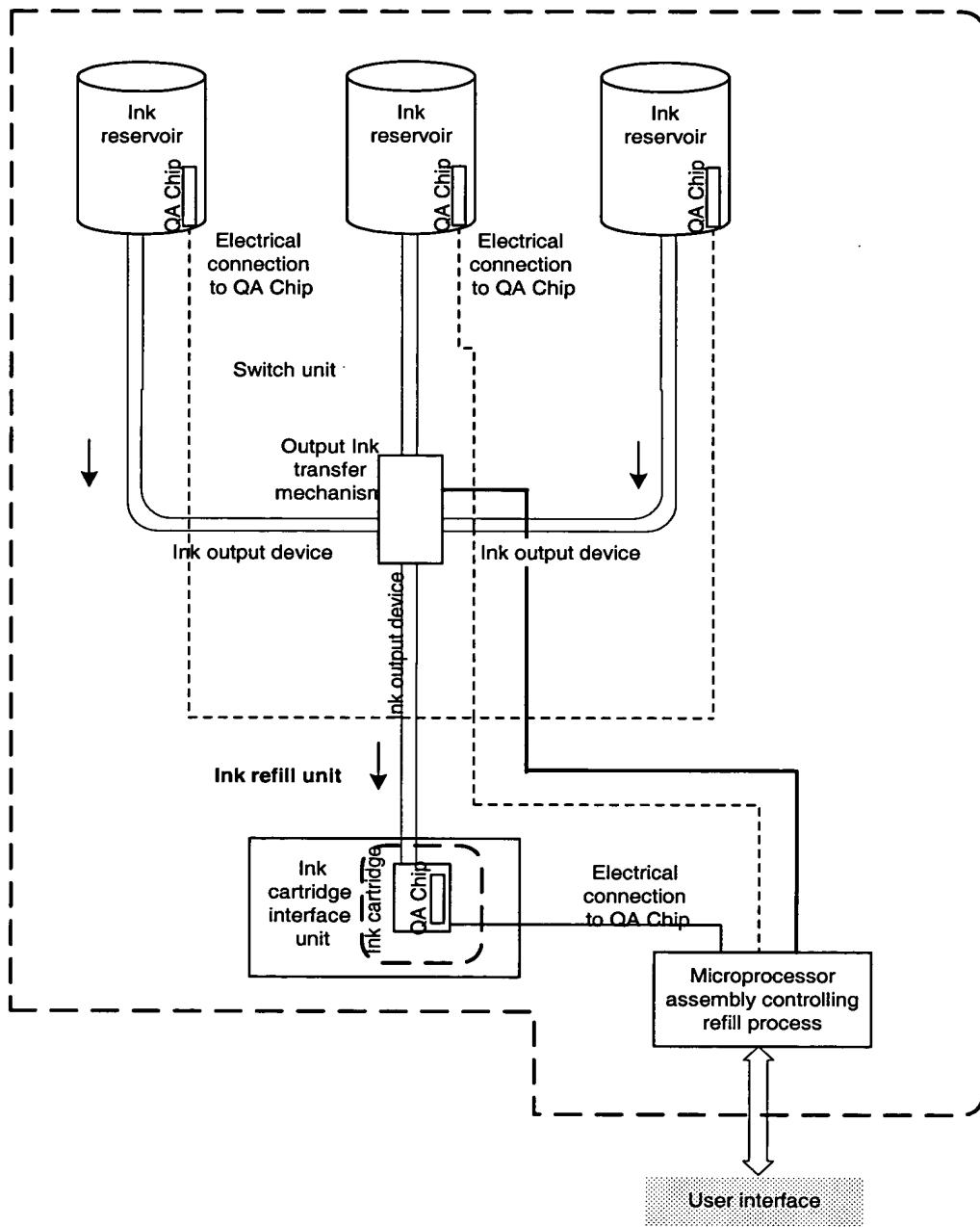


FIG. 359

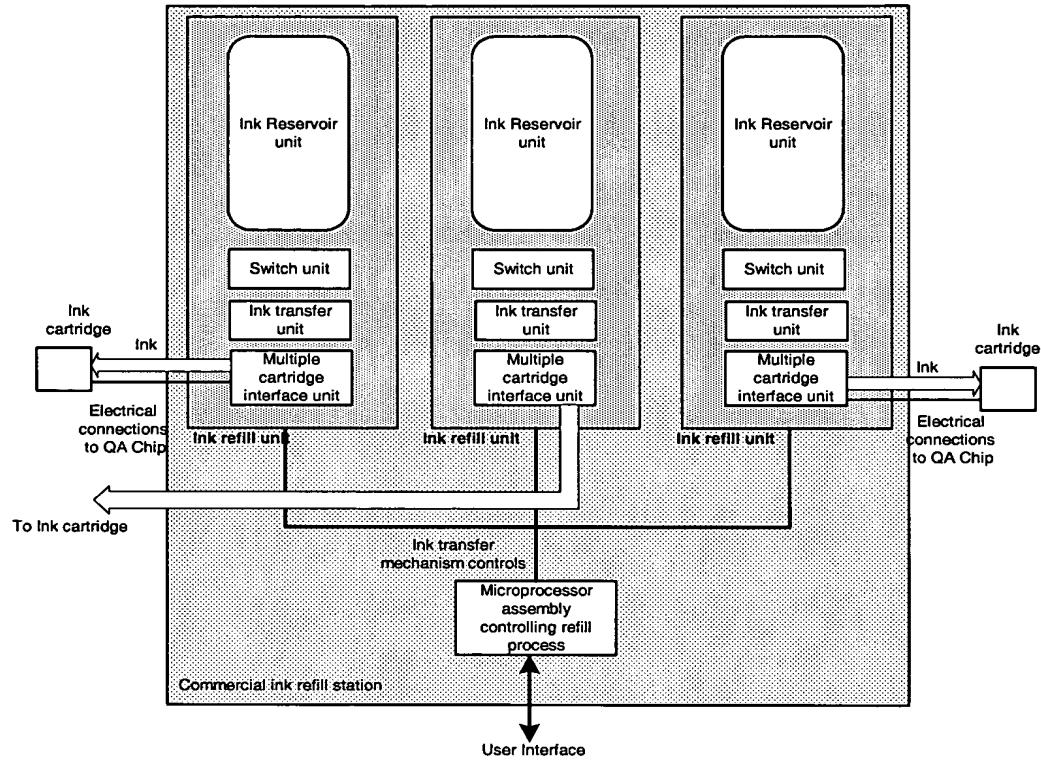


FIG. 360

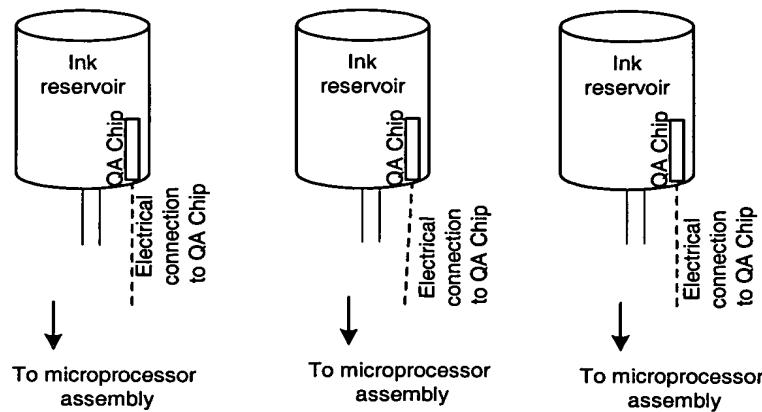


FIG. 361

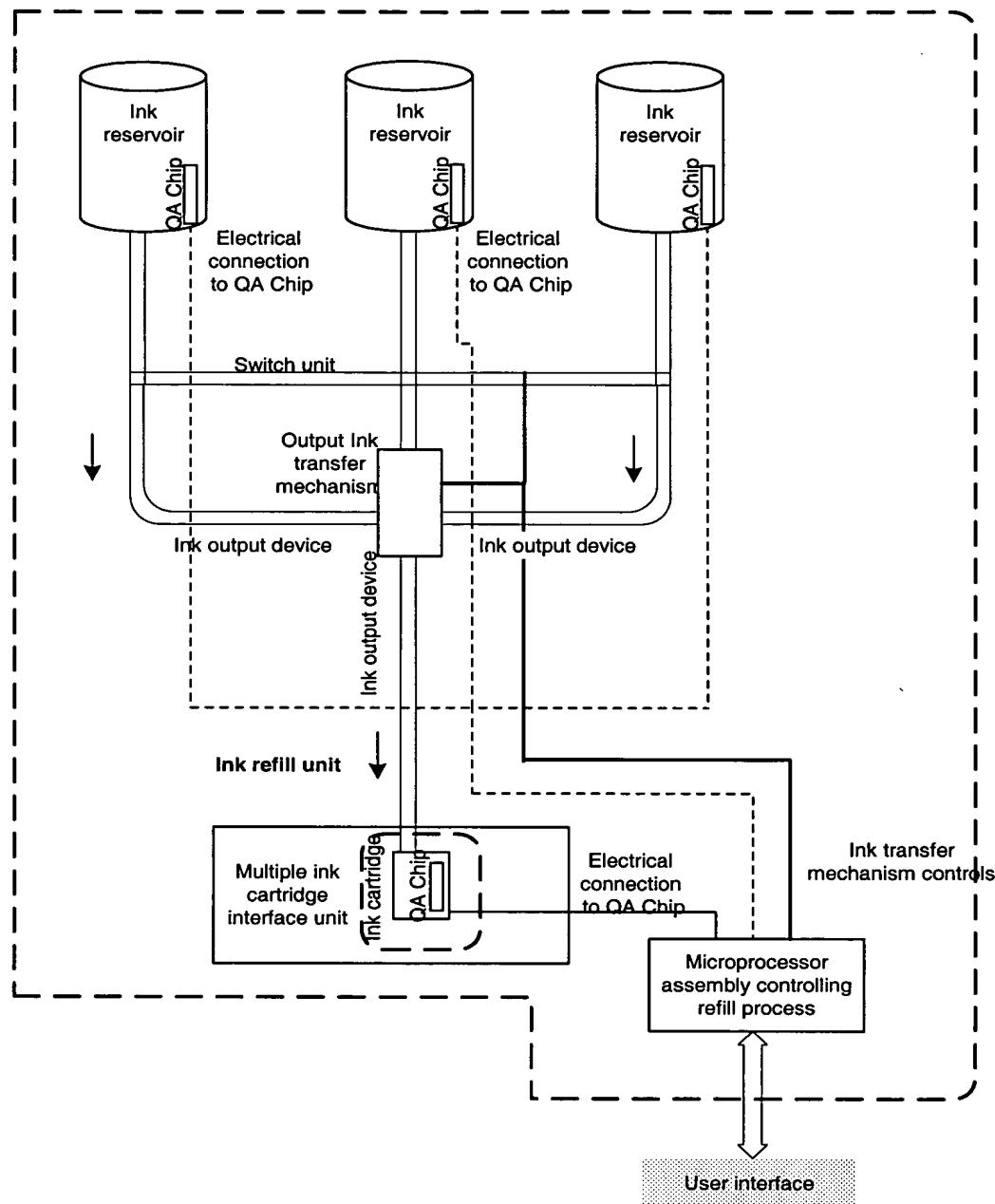


FIG. 362

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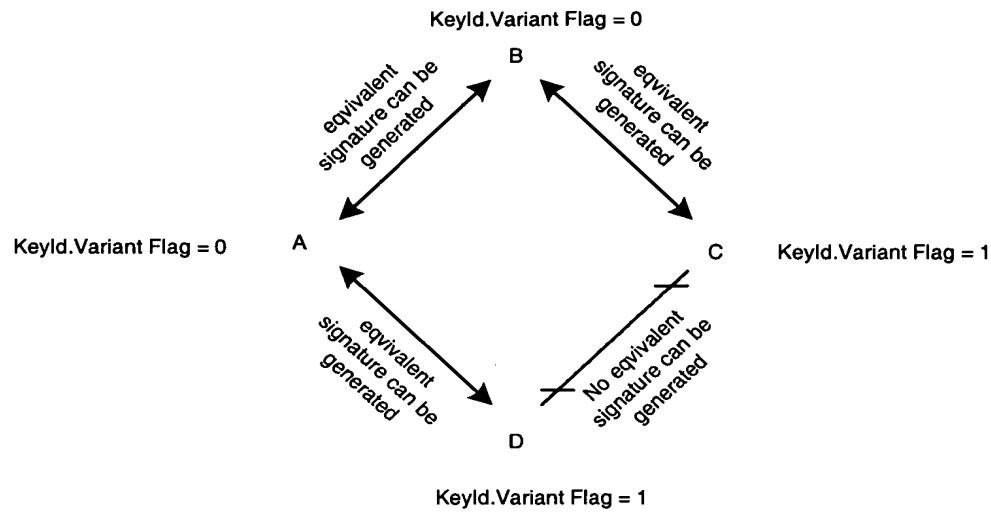


FIG. 363

31	17 16		4 3	0
Type (15 bits)		Permissions (13 bits)		Size and Position (4 bits)

FIG. 364

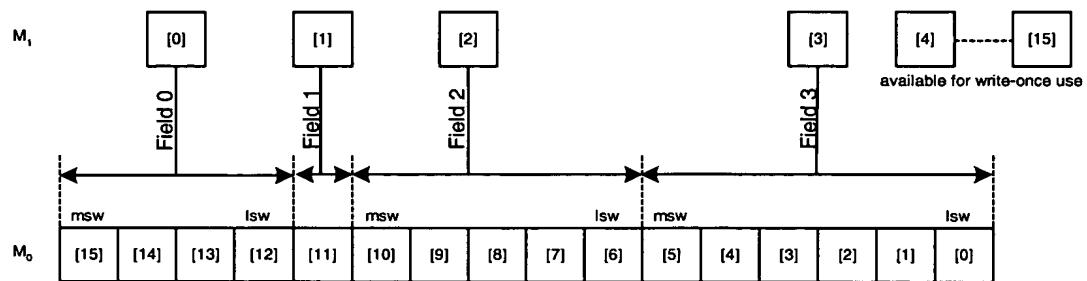


FIG. 365

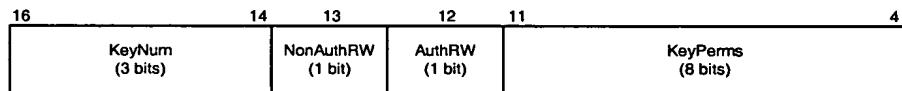


FIG. 366

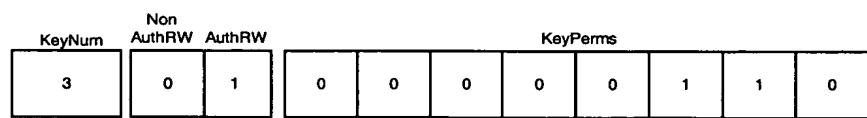


FIG. 367

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KeyNum	Non AuthRW		AuthRW	KeyPerms								
3	1	1	0	0	0	0	1	1	1	0		

FIG. 368

31	17 16	14	13	12	11	4 3	0
	Type (15 bits)	KeyNum (3 bits)	NonAuth RW (1 bit)	AuthRW (1 bit)		KeyPerms (8 bits)	EndPos (4 bits)

FIG. 369

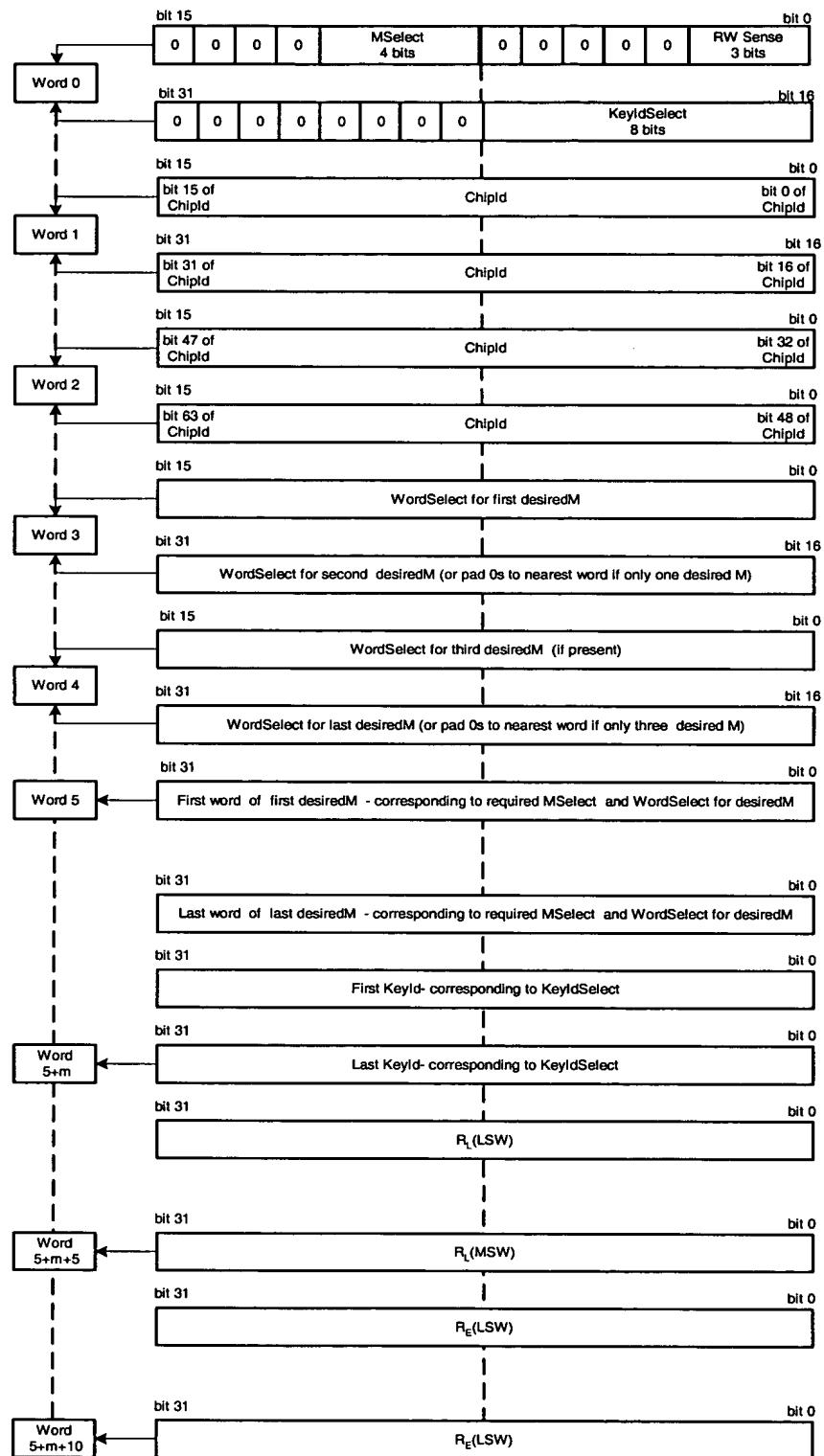


FIG. 370

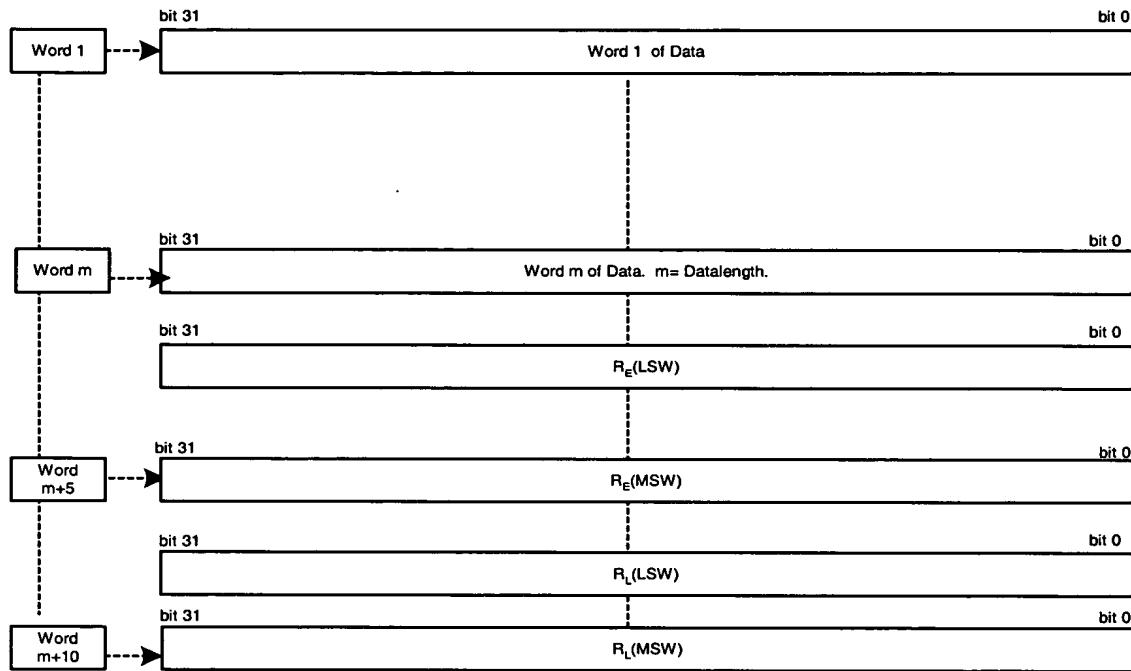


FIG. 371

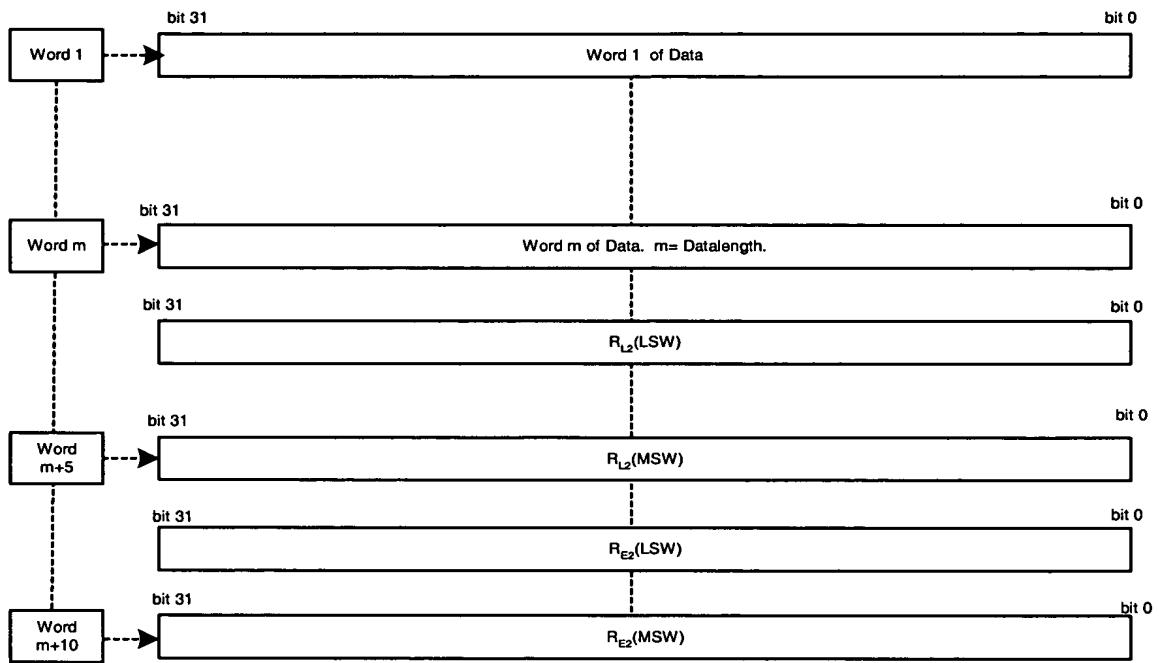


FIG. 372

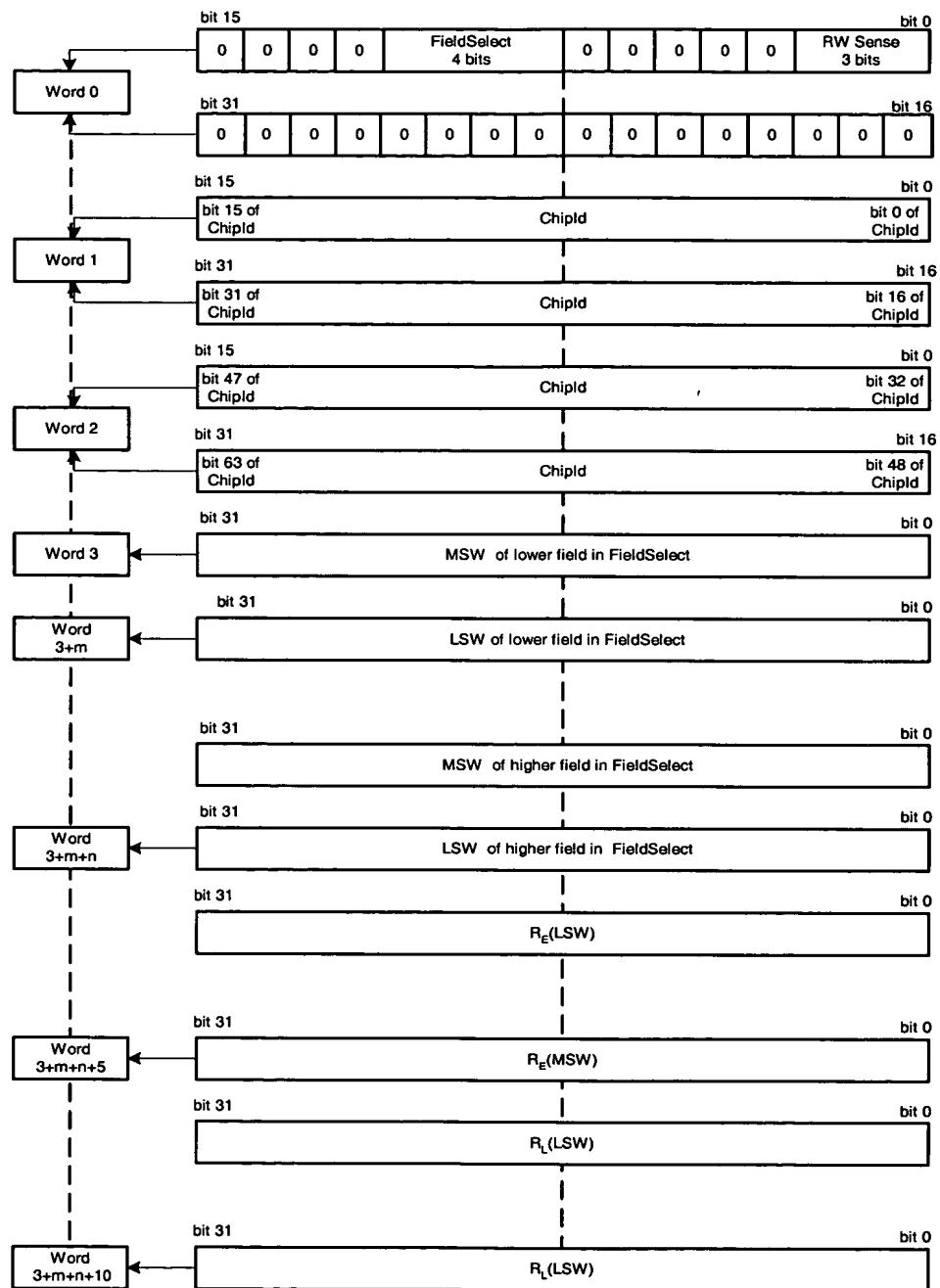


FIG. 373

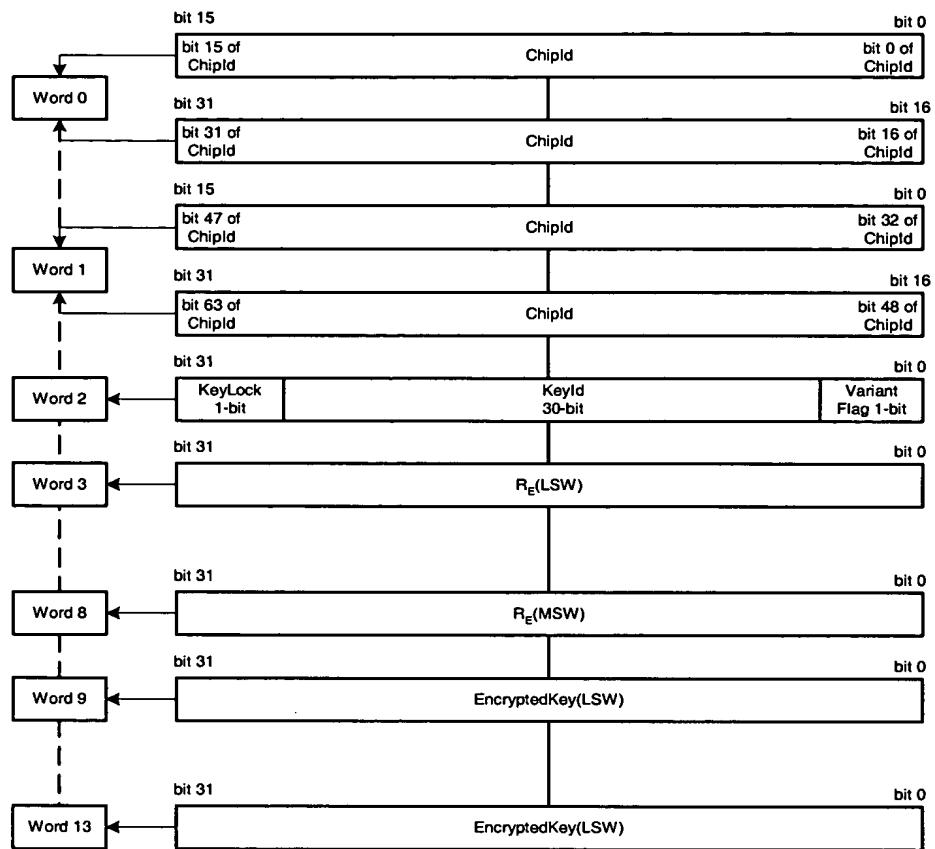


FIG. 374

	K_0	K_1	K_2	K_3	K_4	K_5	K_6	K_7	NewKey
K_0									
K_1			1						
K_2					1				1
K_3		1							
K_4		1							
K_5		1							
K_6		1				1			
K_7		1							

→ 0x00
→ 0x04
→ 0x90
→ 0x02
→ 0x02
→ 0x02
→ 0x22
→ 0x02

FIG. 375

	K_0	K_1	K_2	K_3	K_4	K_5	K_6	K_7	NewKey
K_0									
K_1				access deleted					
K_2			access deleted			1			1
K_3									
K_4									
K_5									
K_6							1		
K_7									

→ 0x00
→ 0x00
→ 0x90
→ 0x00
→ 0x00
→ 0x00
→ 0x20
→ 0x00

FIG. 376

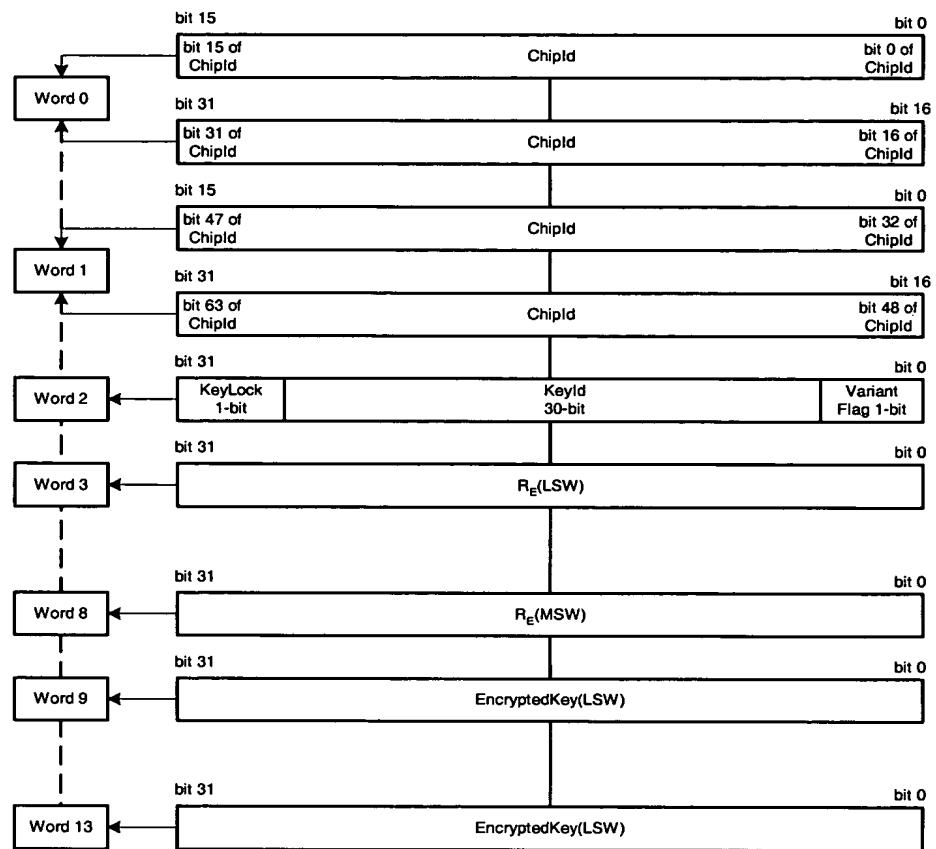


FIG. 377

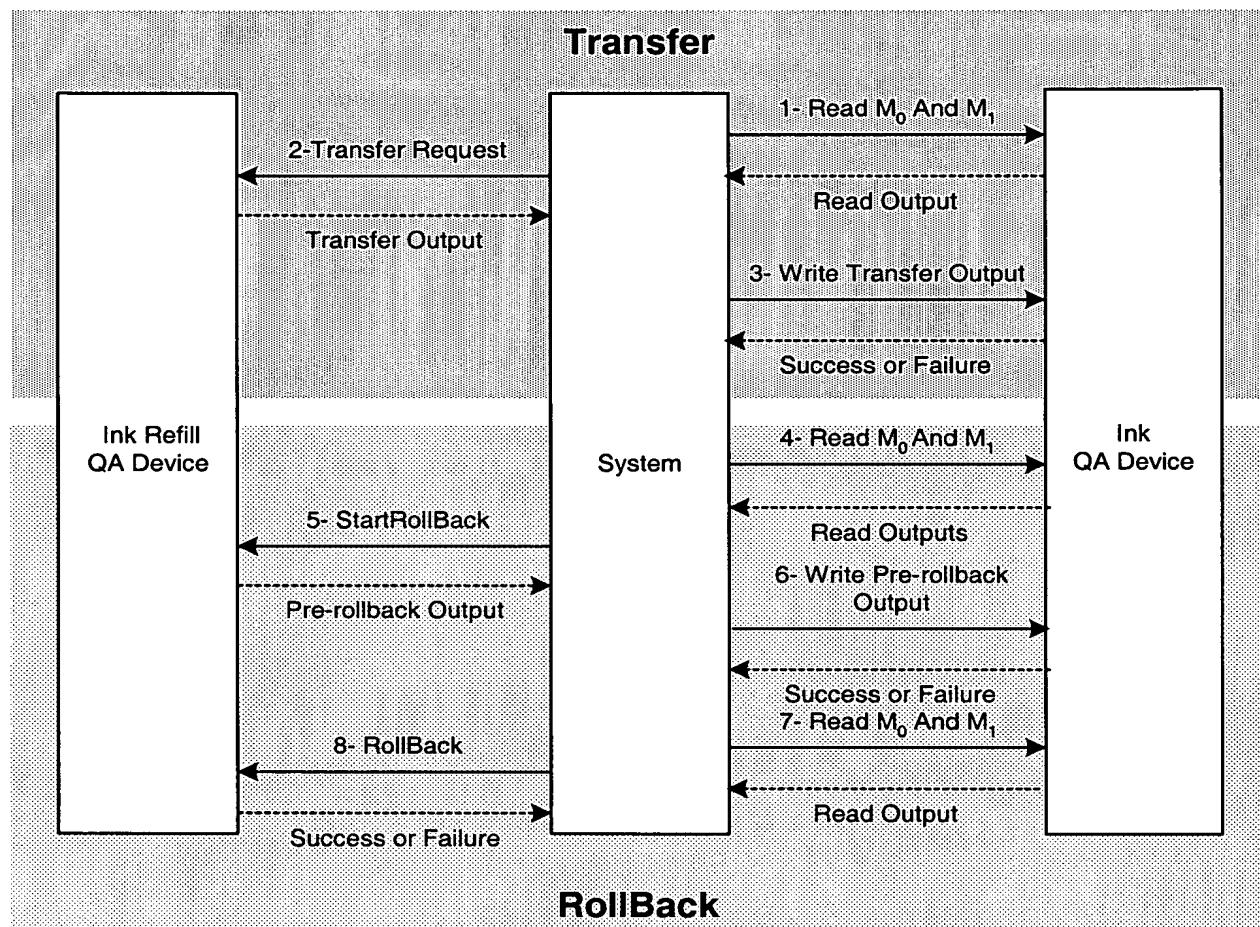


FIG. 378

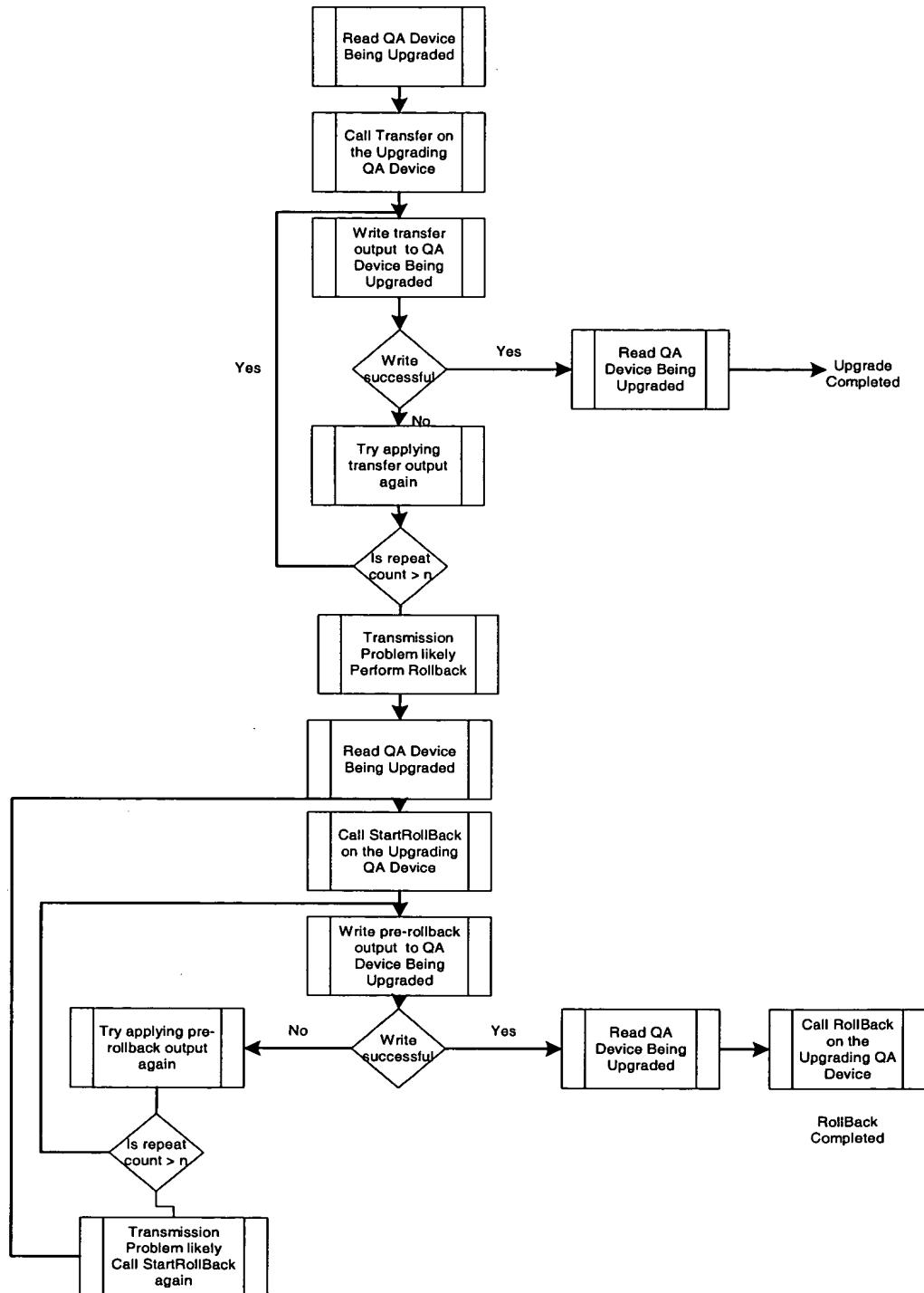


FIG. 379

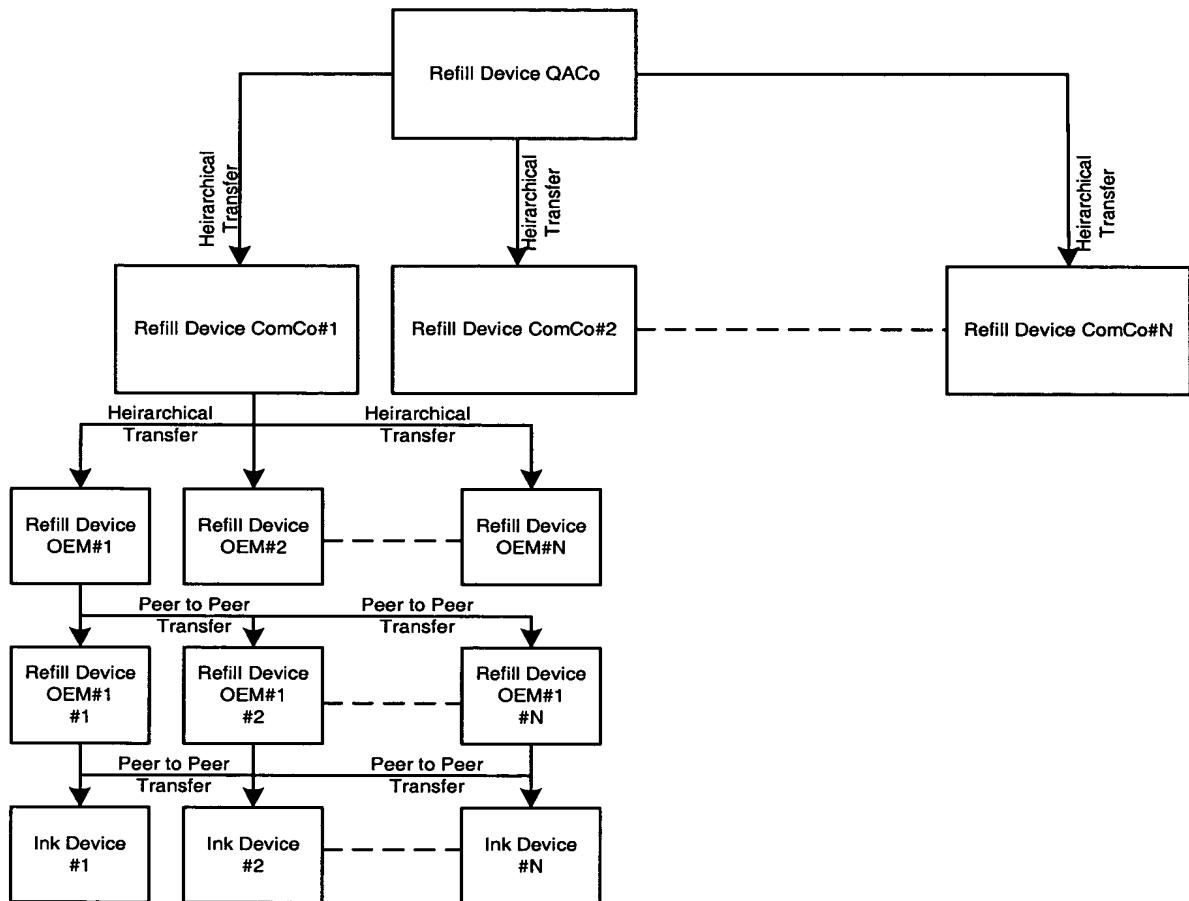


FIG. 380

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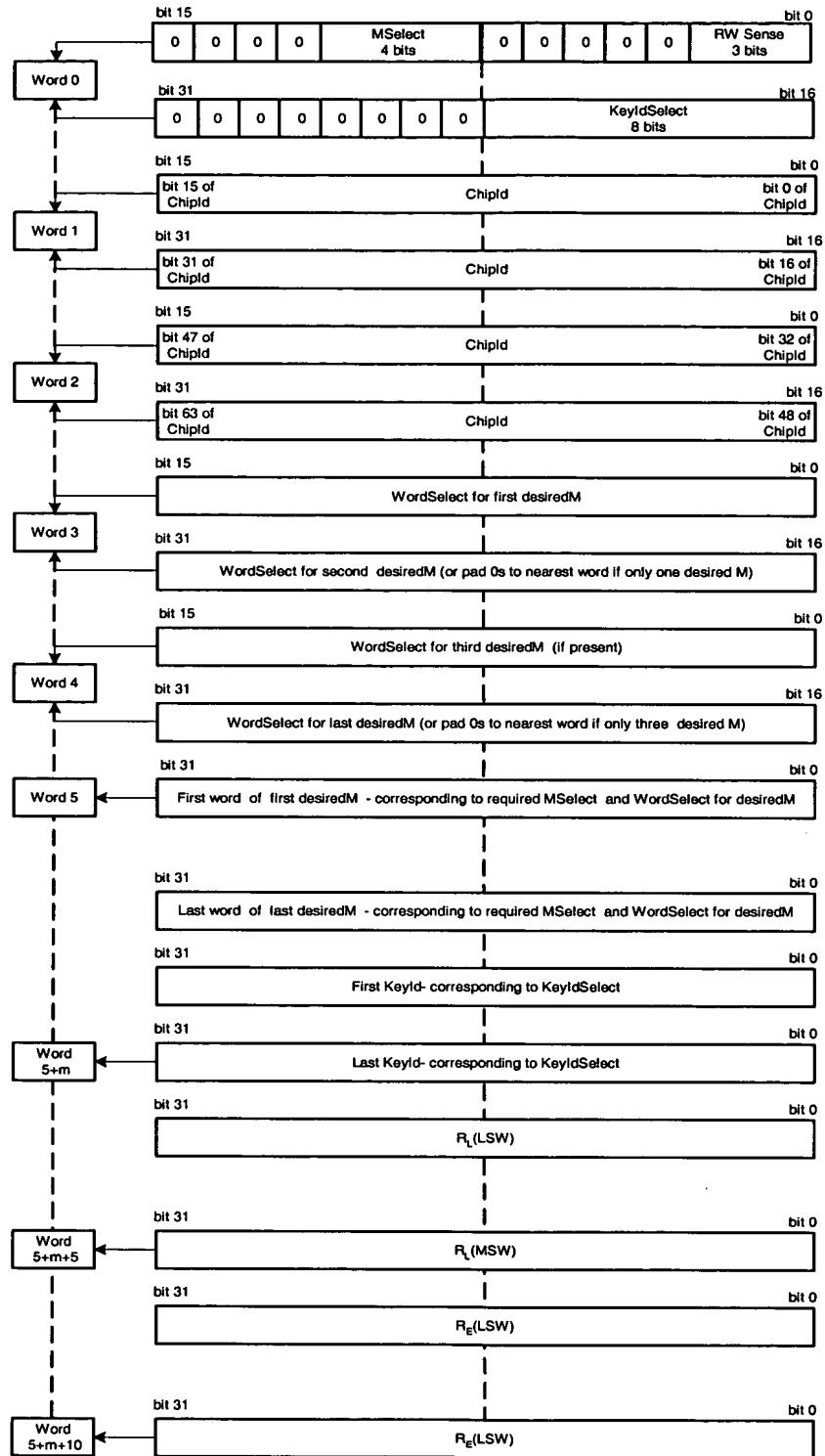


FIG. 381

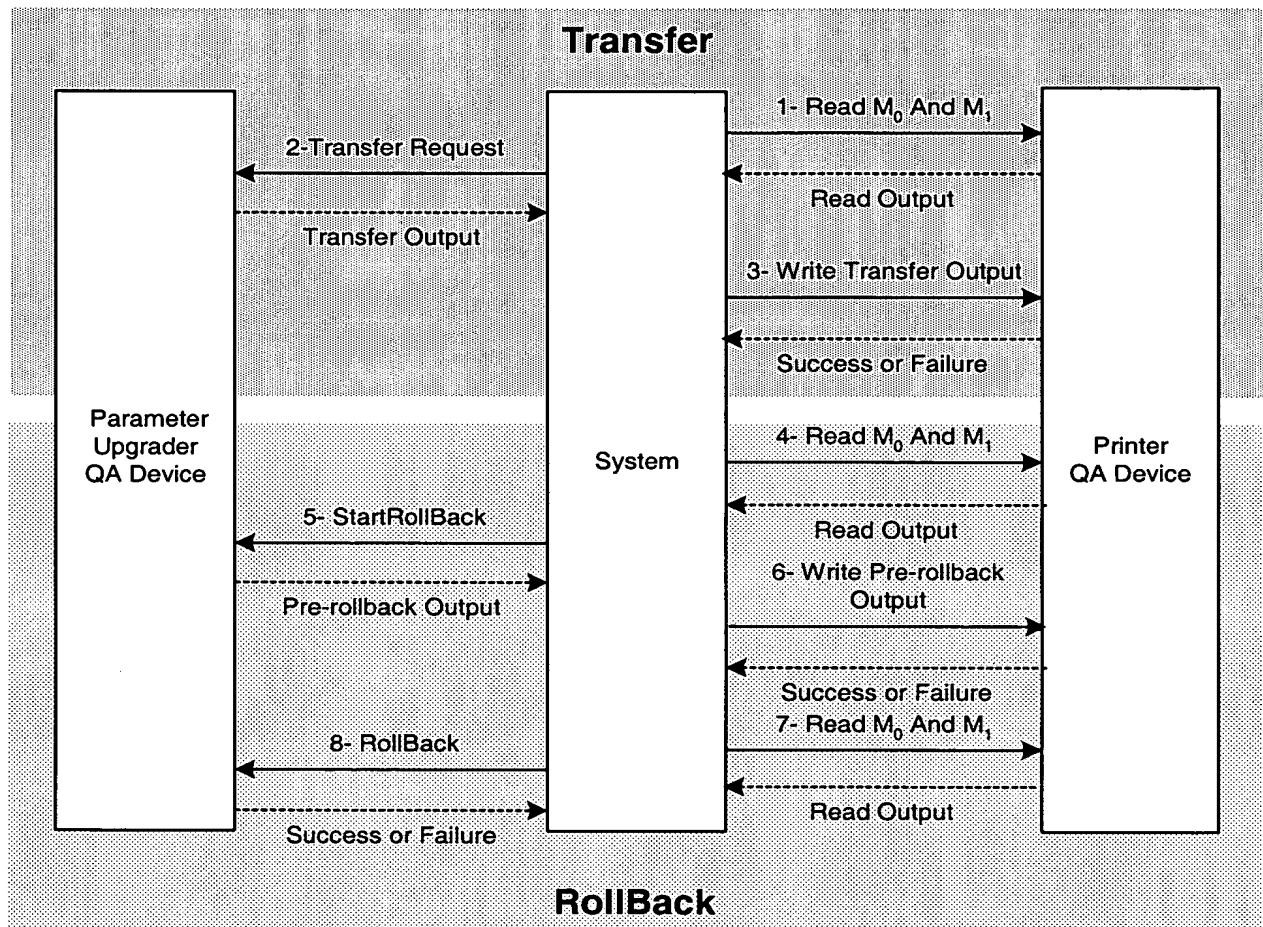


FIG. 382

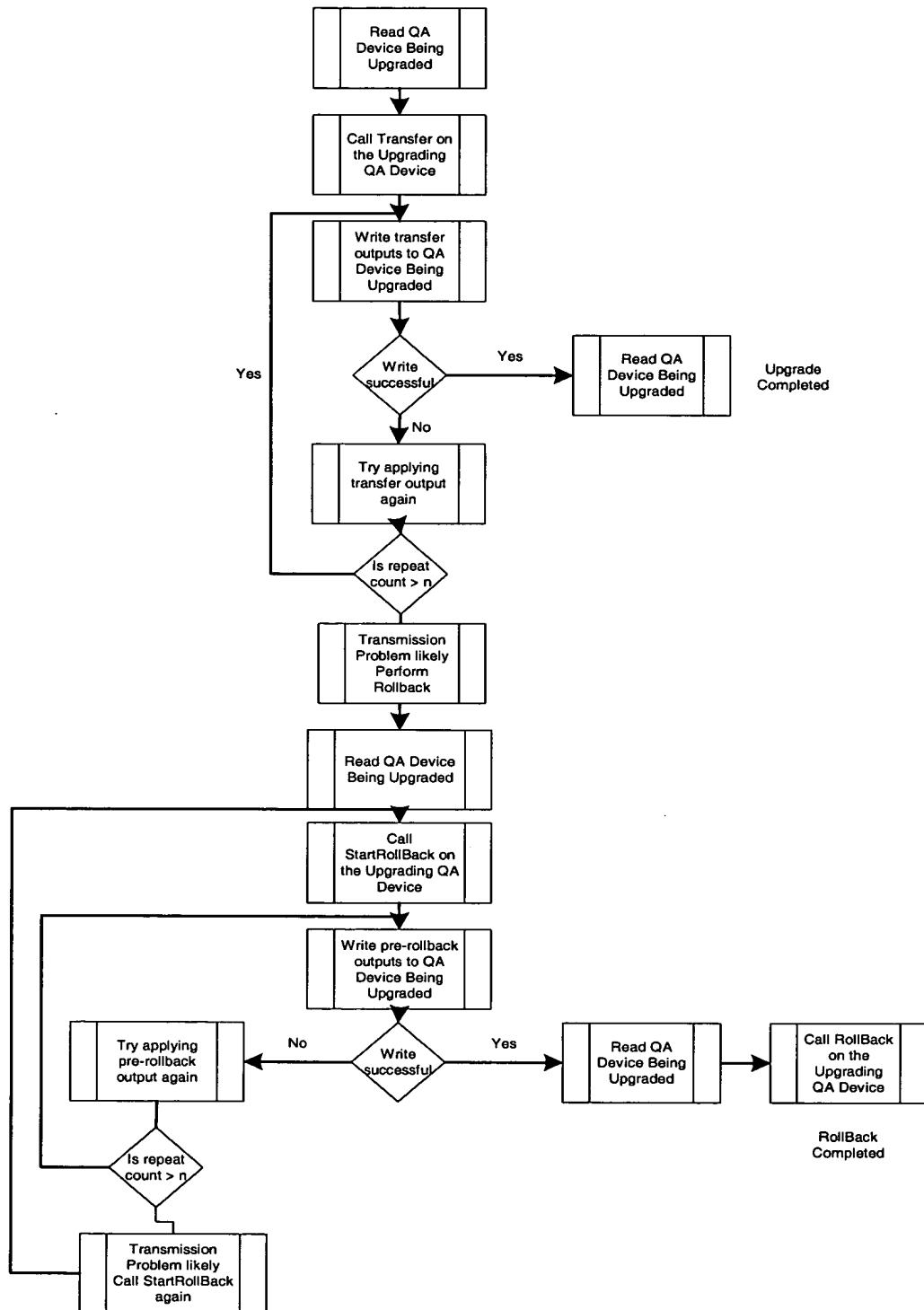


FIG. 383

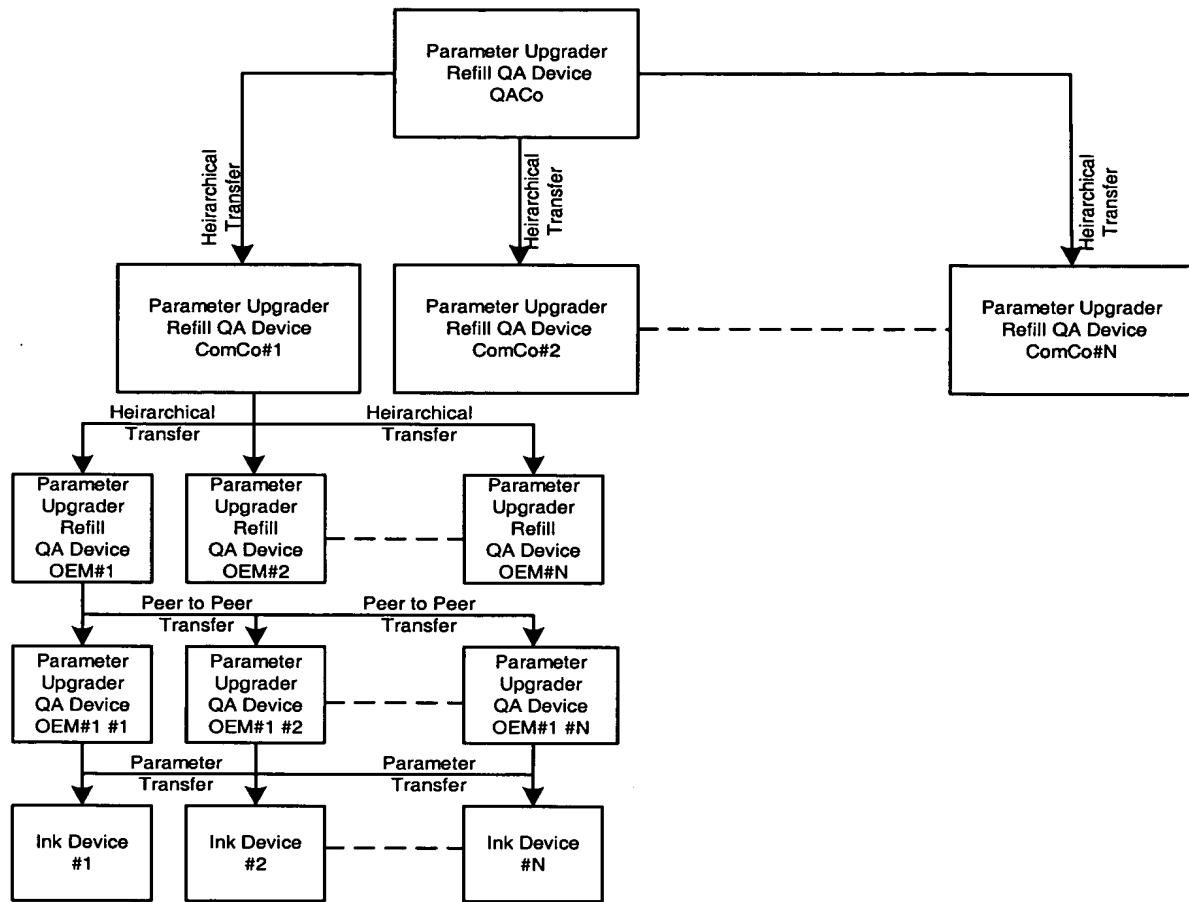


FIG. 384

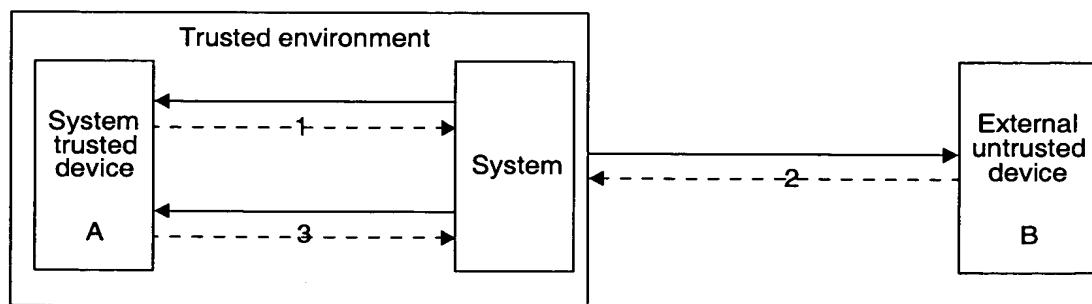


FIG. 385

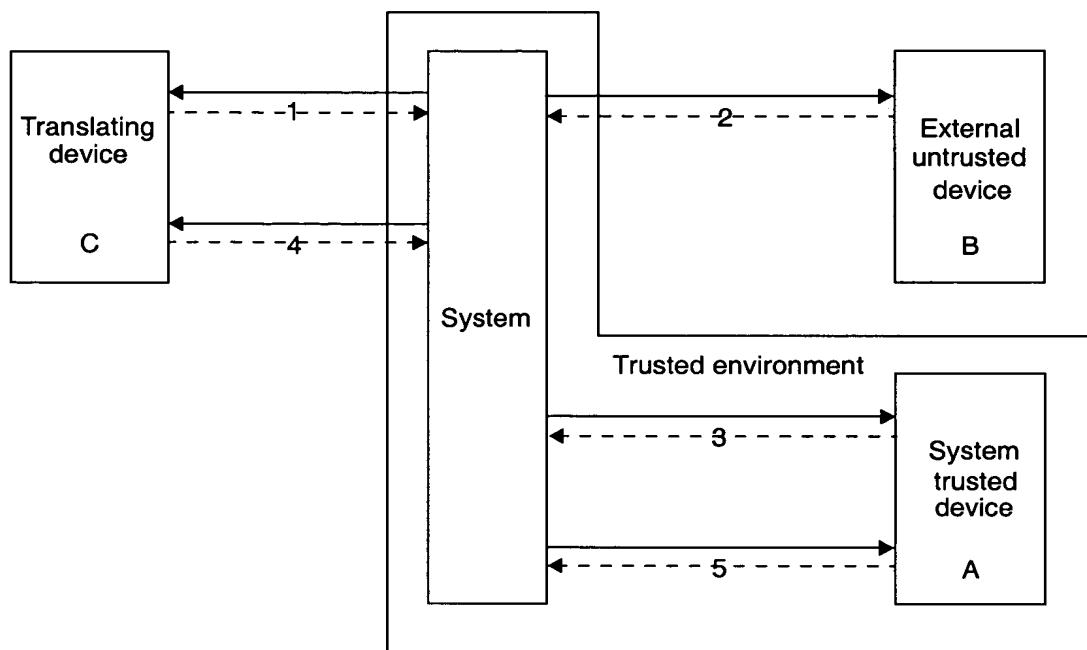


FIG. 386

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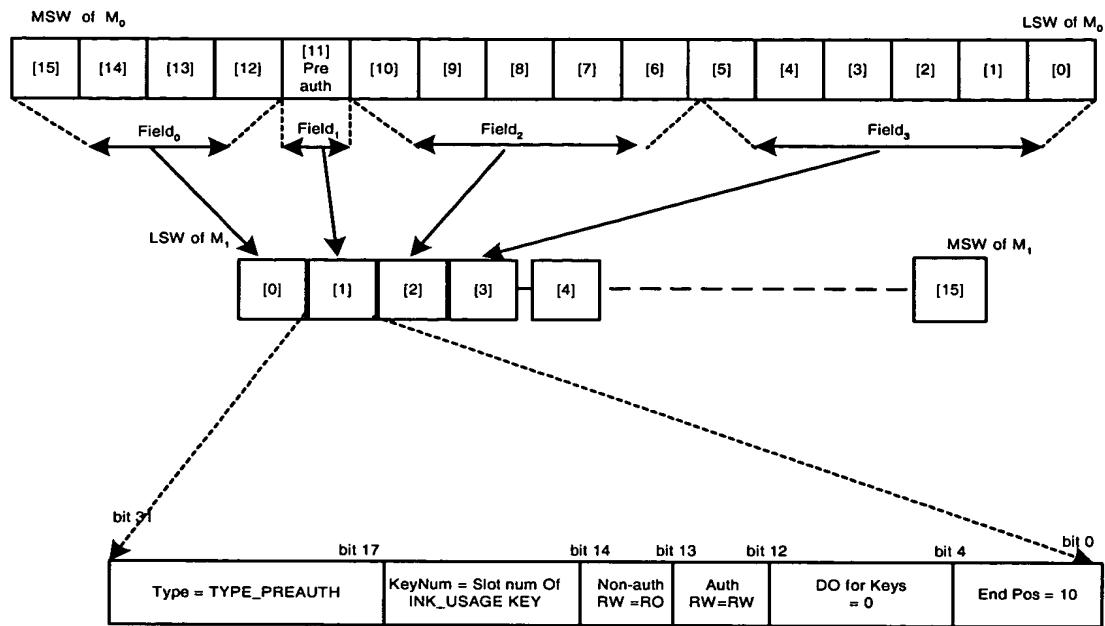


FIG. 387

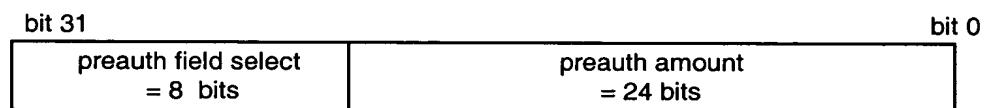


FIG. 388

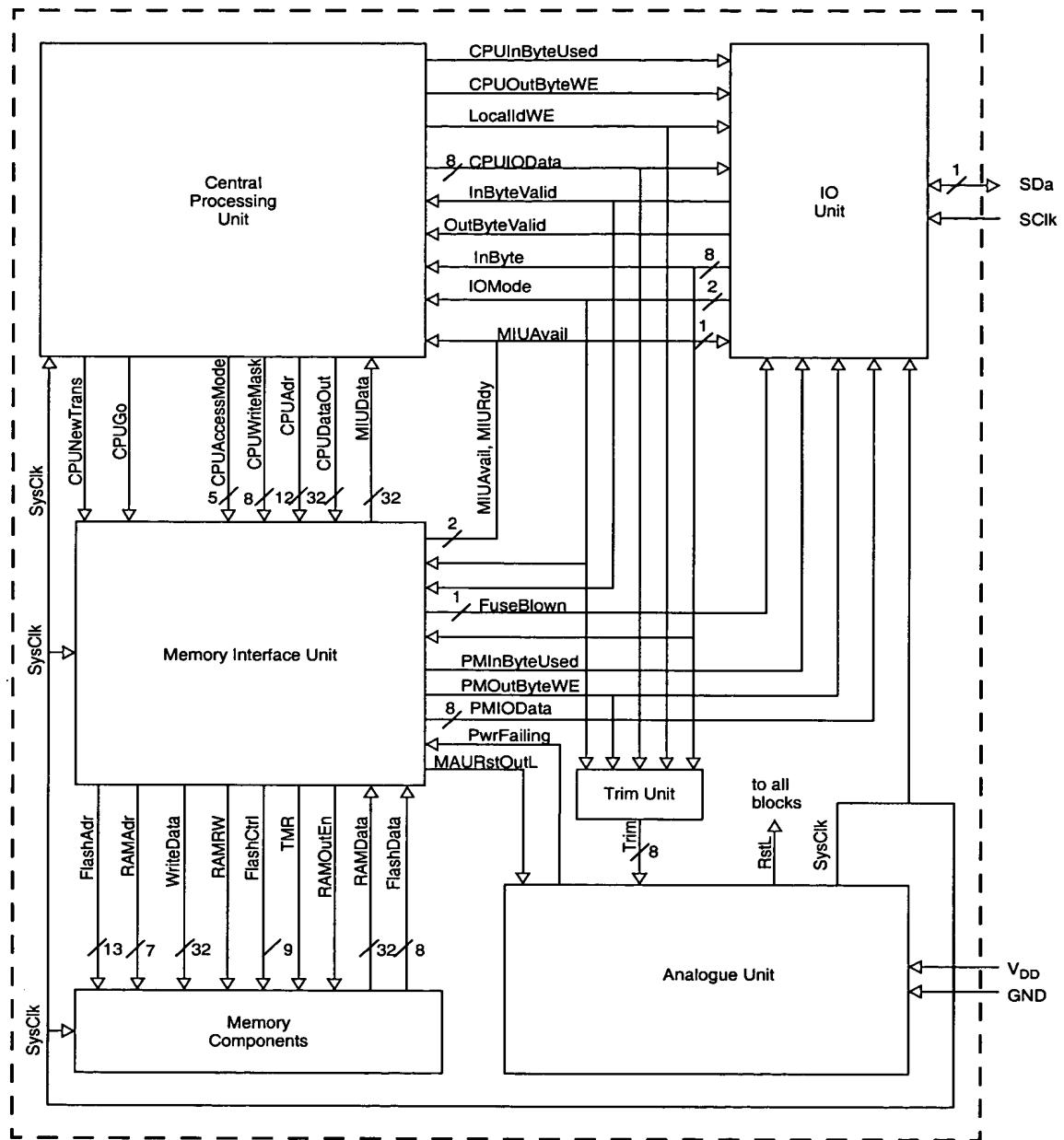


FIG. 389

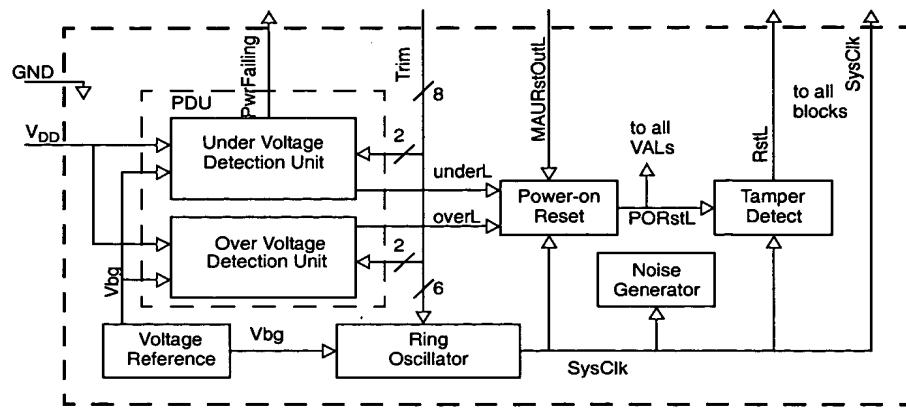


FIG. 390

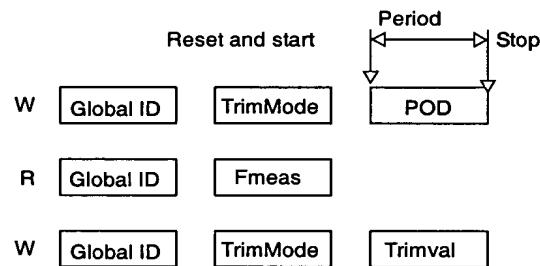


FIG. 391

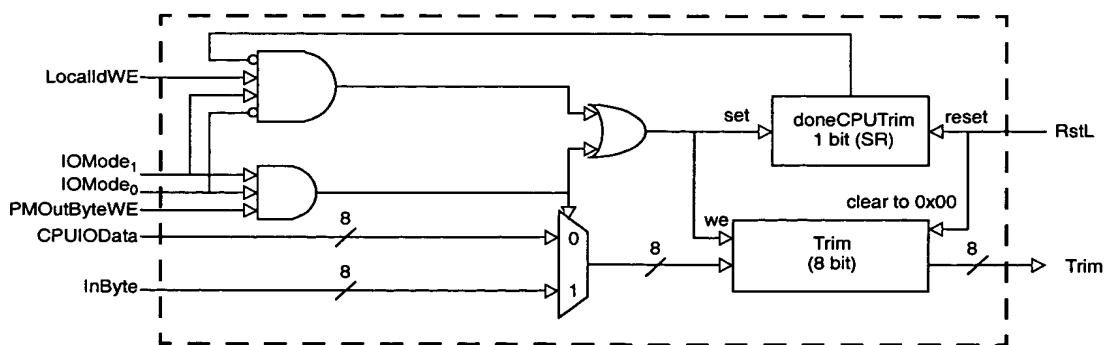


FIG. 392

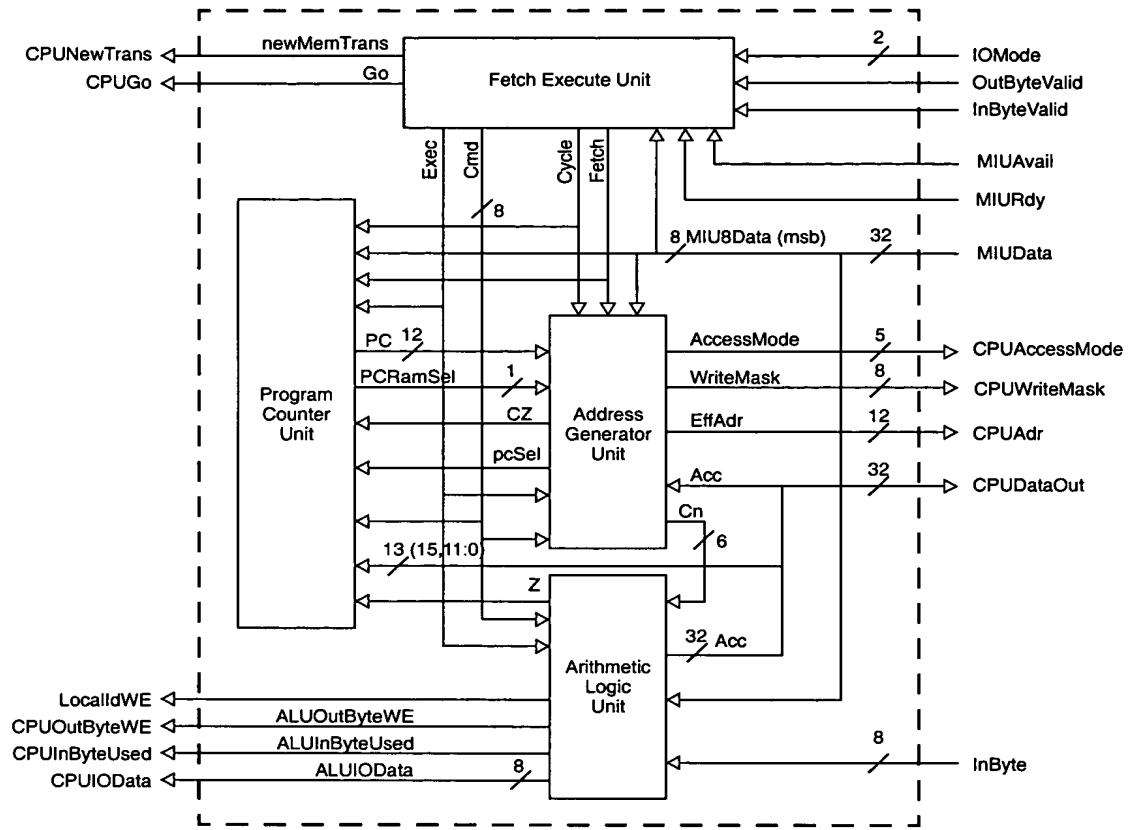


FIG. 393

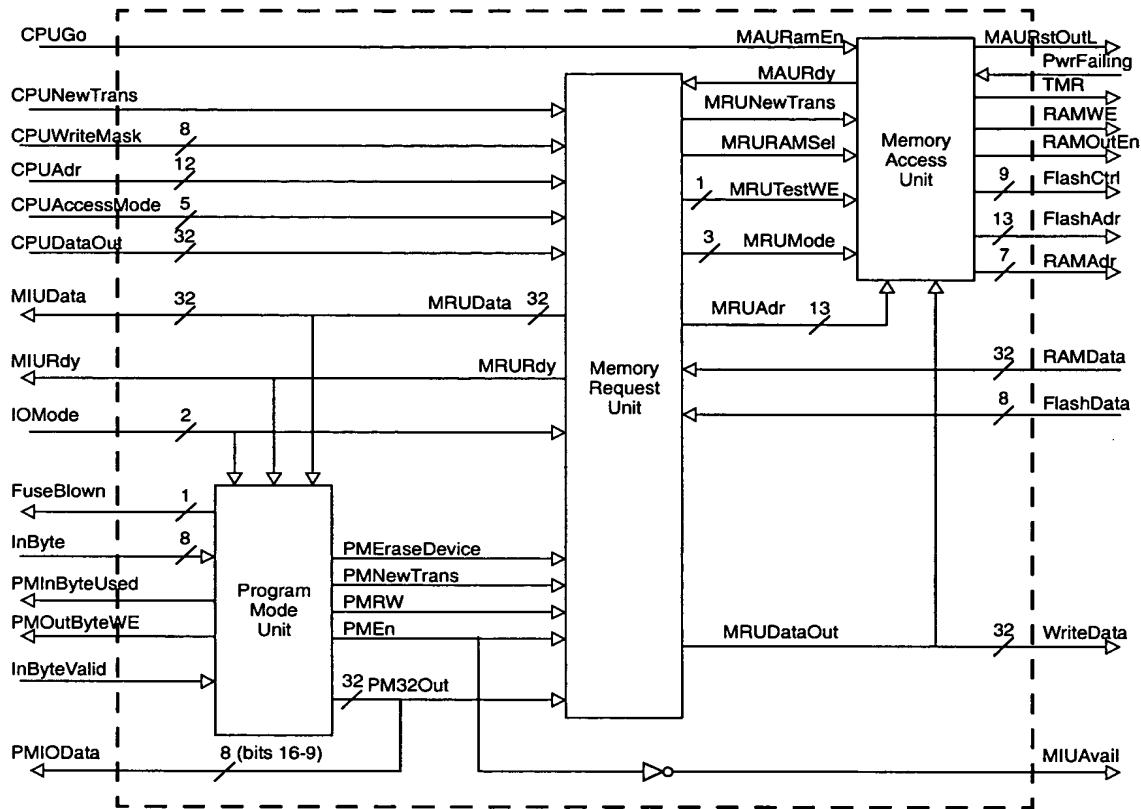


FIG. 394

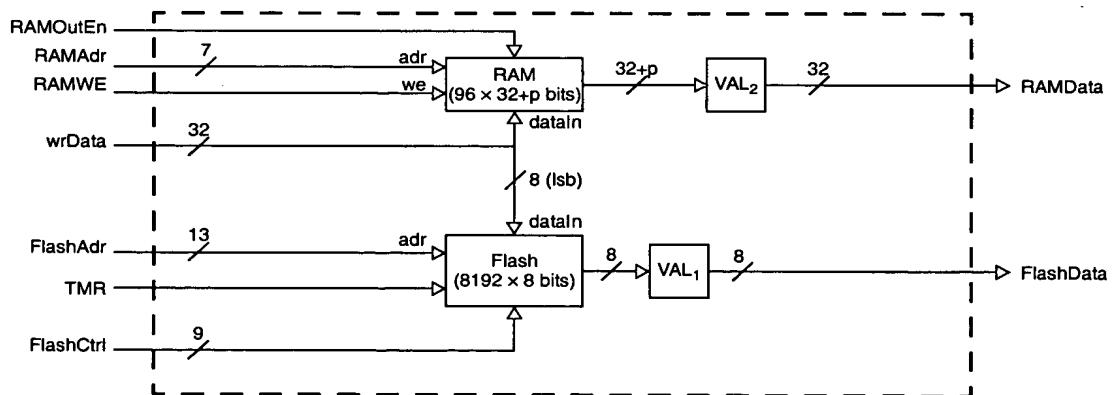


FIG. 395

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Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
PrIxD6	PrIxD5	PrIxD4	PrIxD3	PrIxD2	PrIxD1	PrIxD0	R/W 0 = write 1 = read

FIG. 396

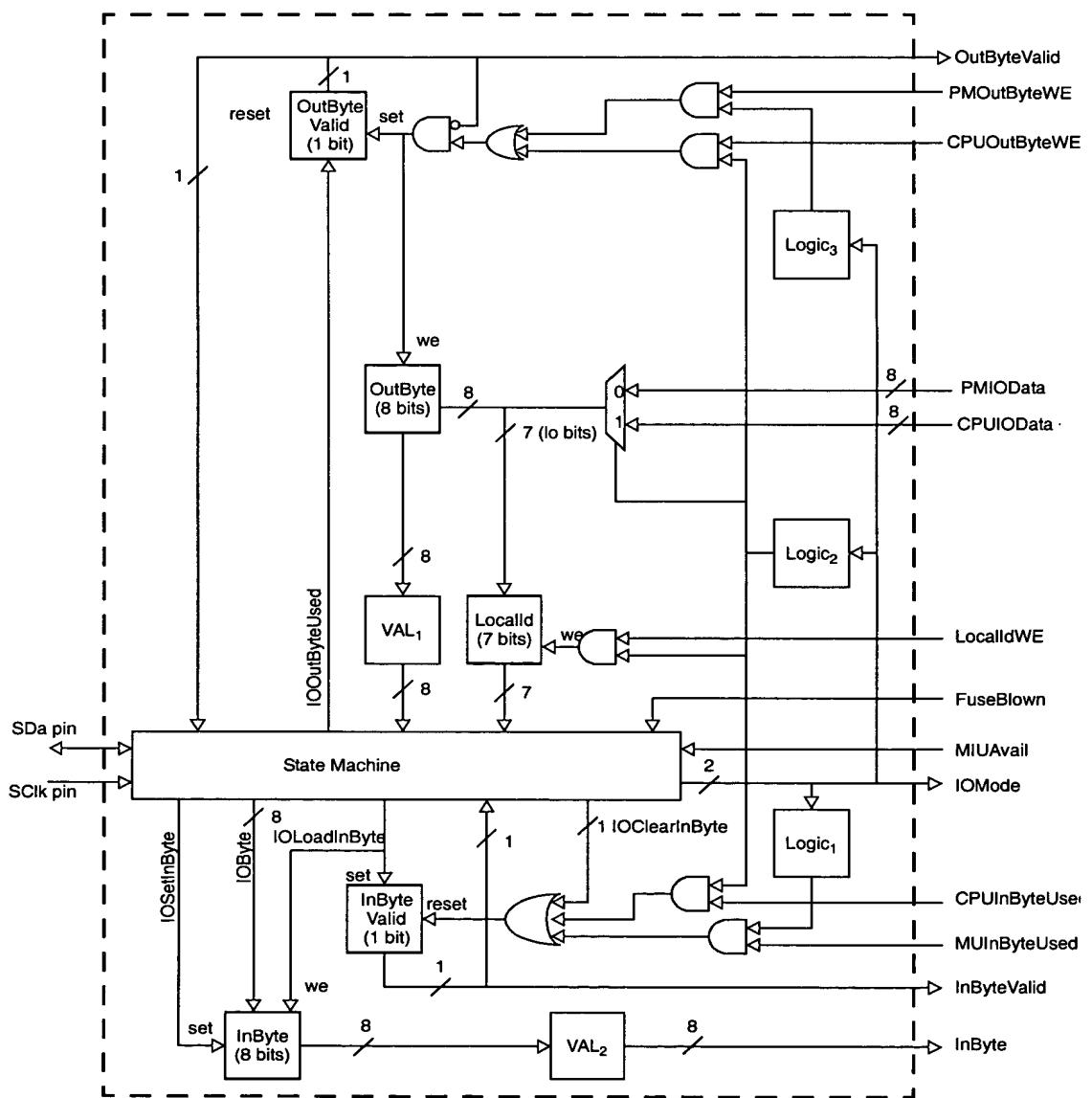


FIG. 397

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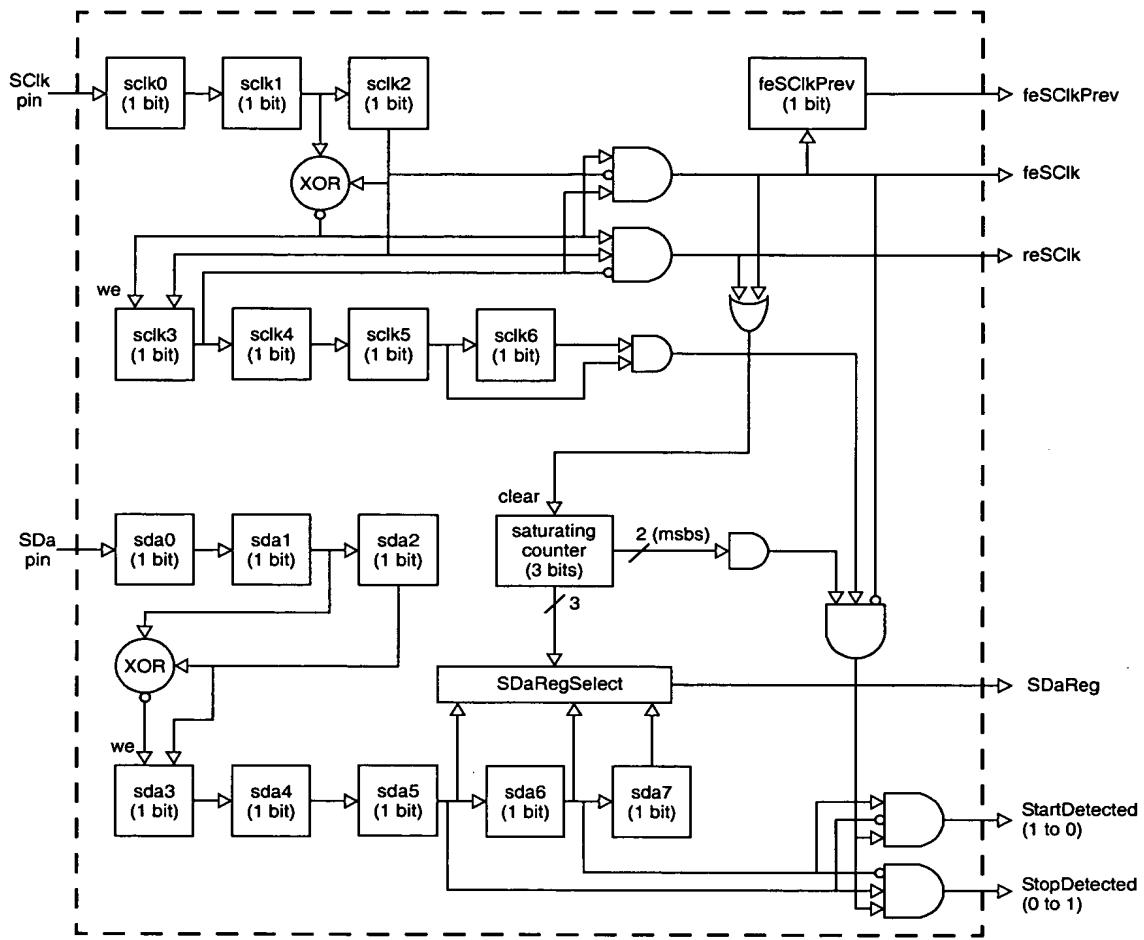


FIG. 398

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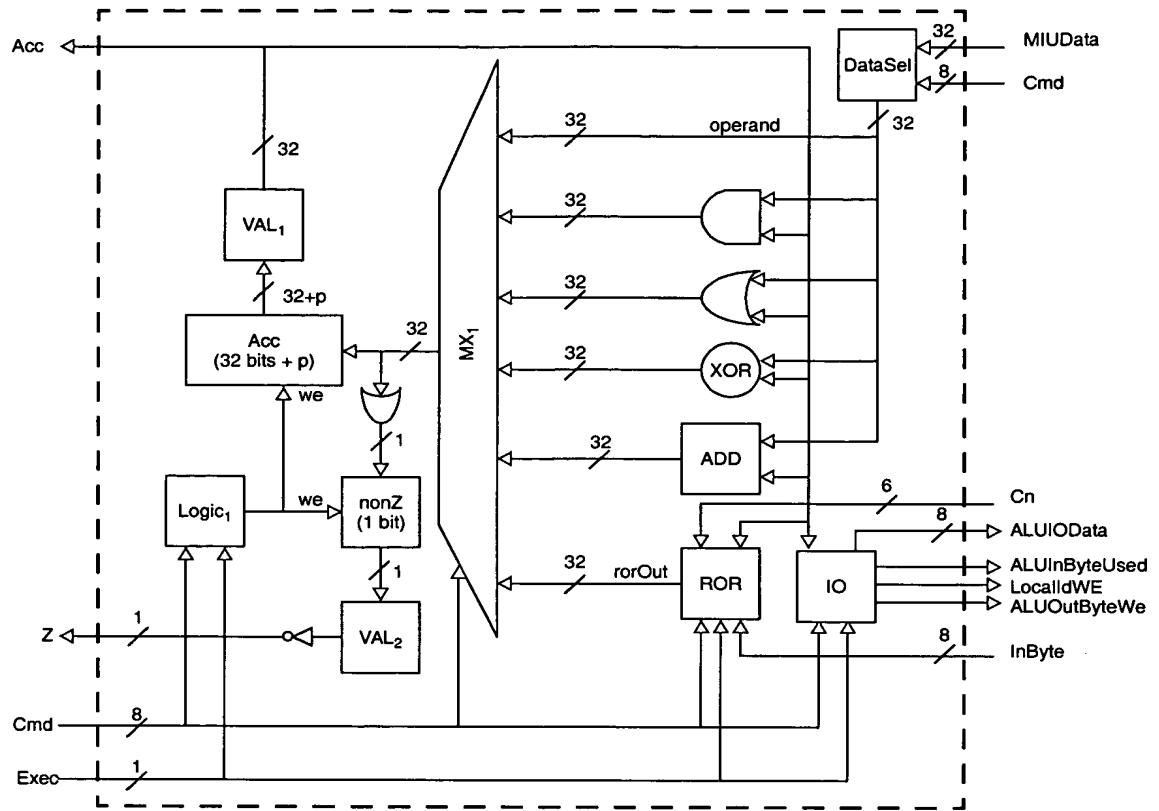


FIG. 399

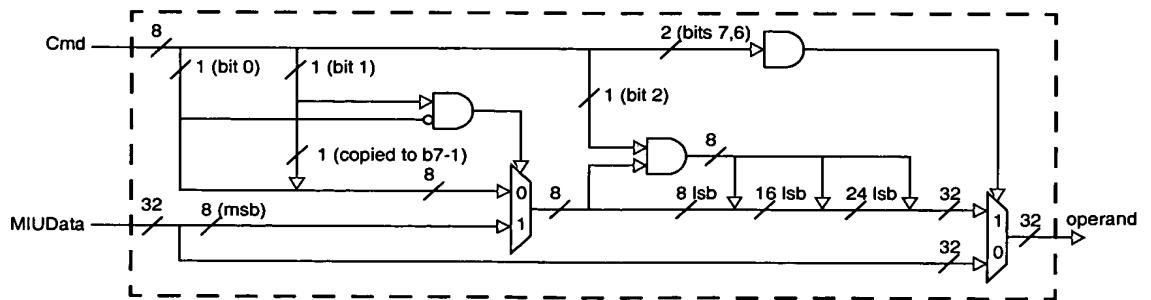


FIG. 400

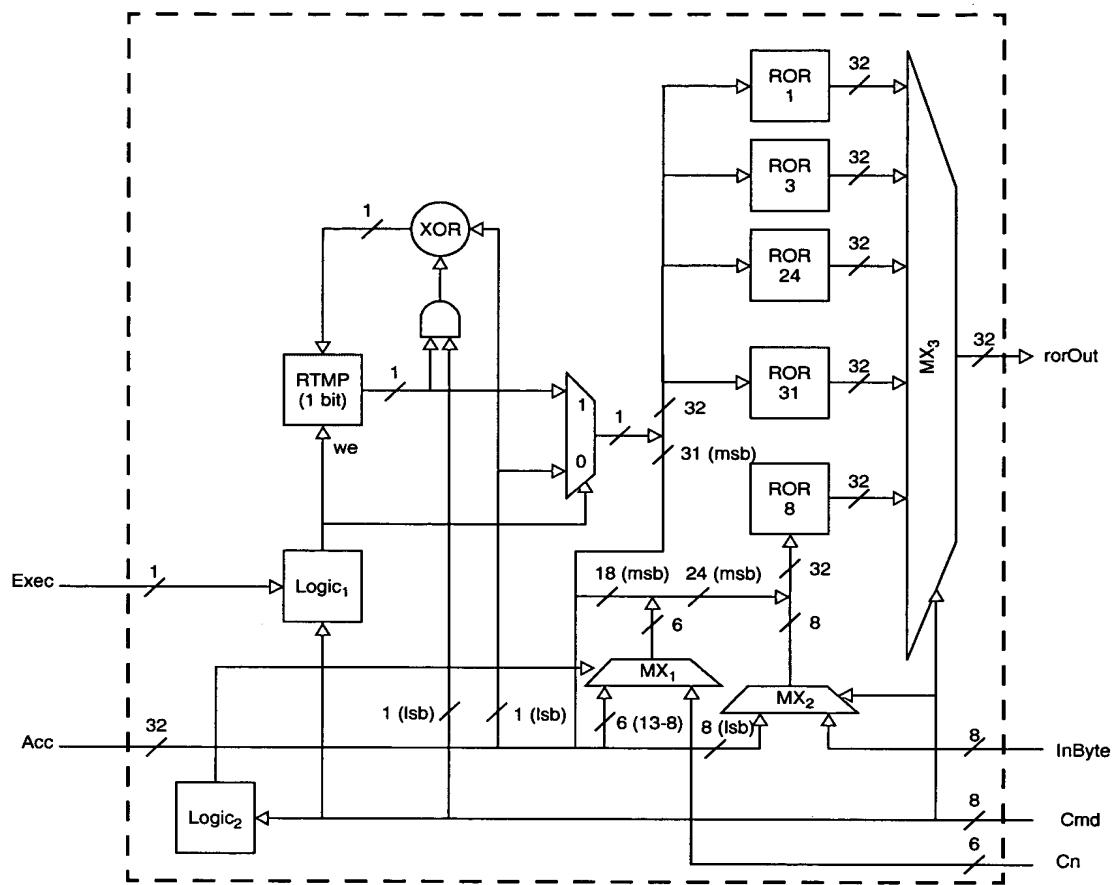


FIG. 401

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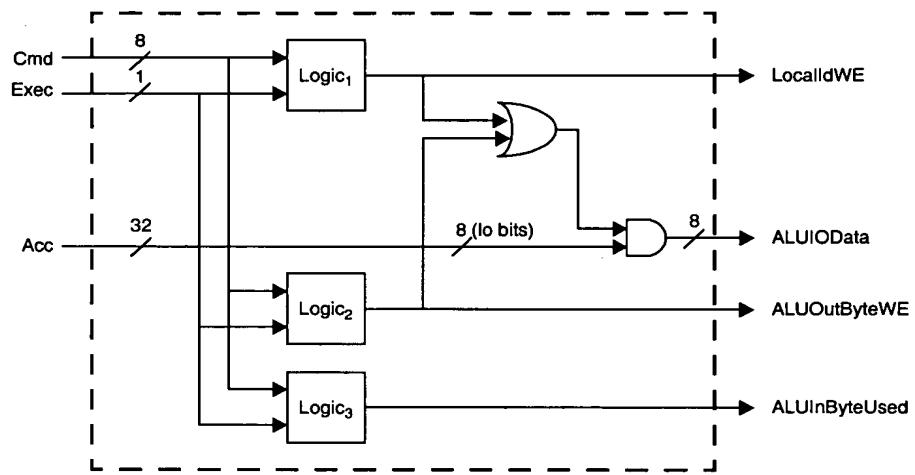


FIG. 402

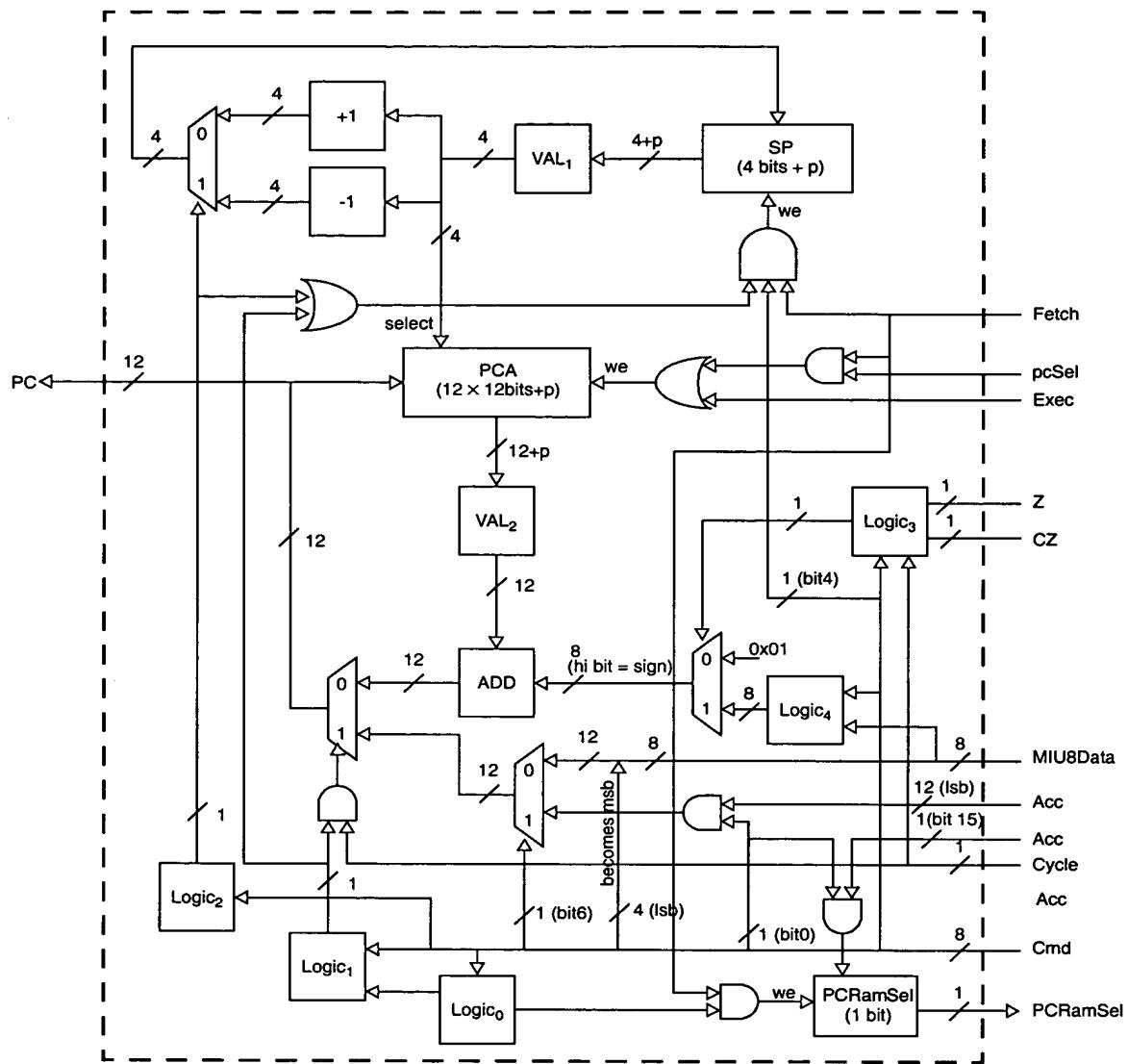


FIG. 403

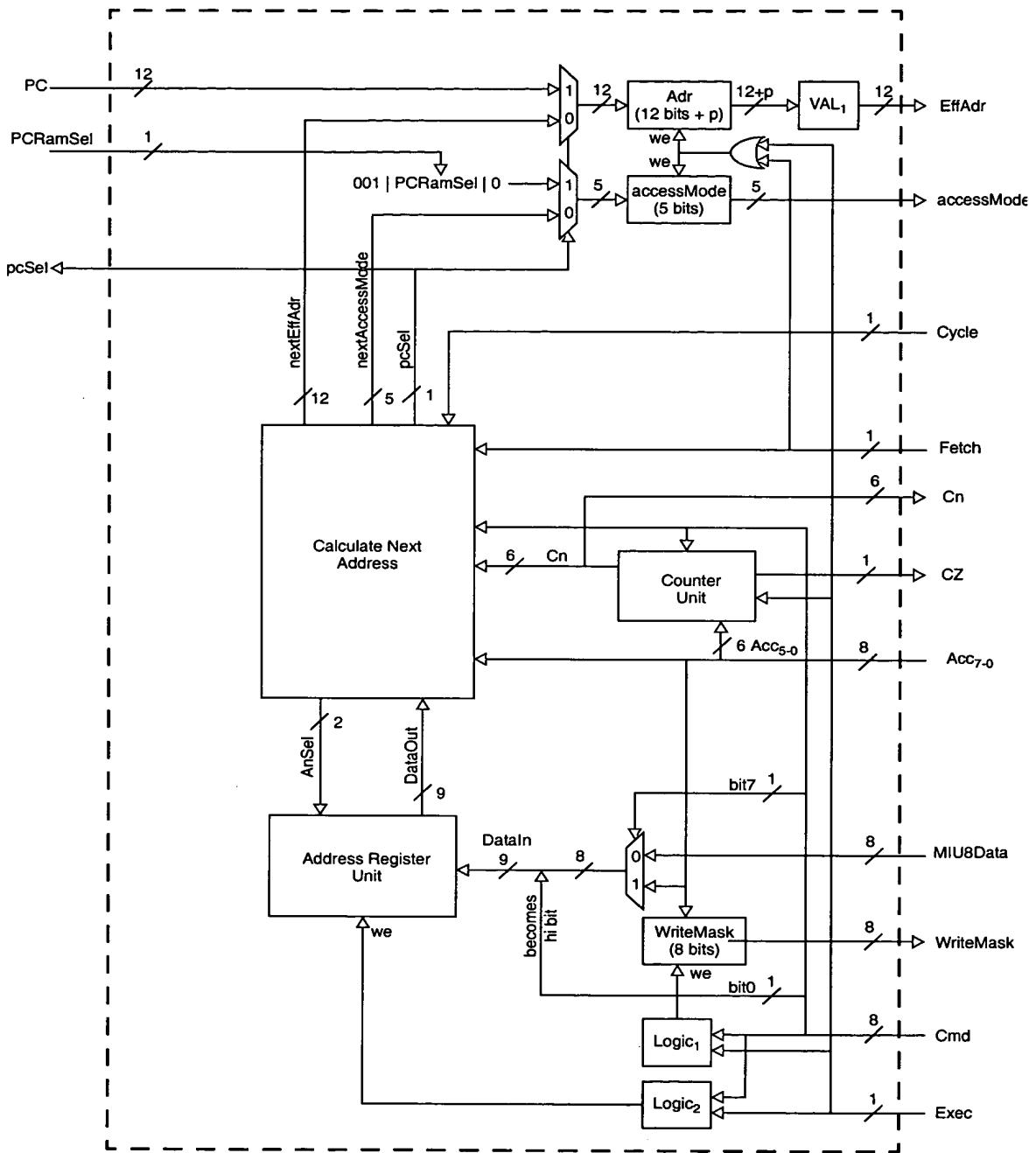


FIG. 404

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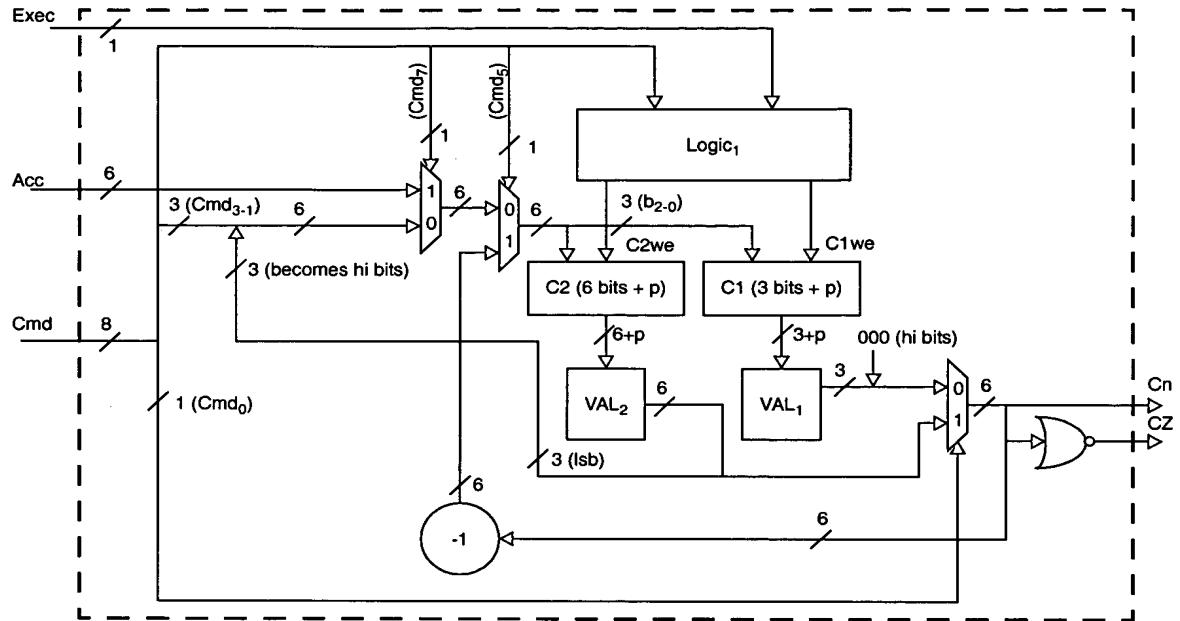


FIG. 405

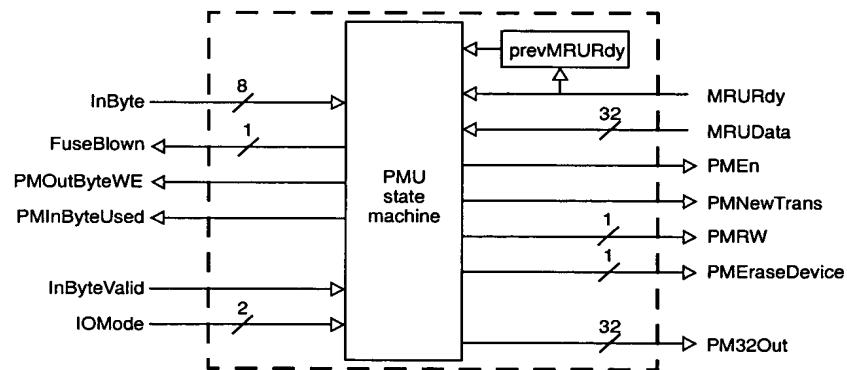


FIG. 406

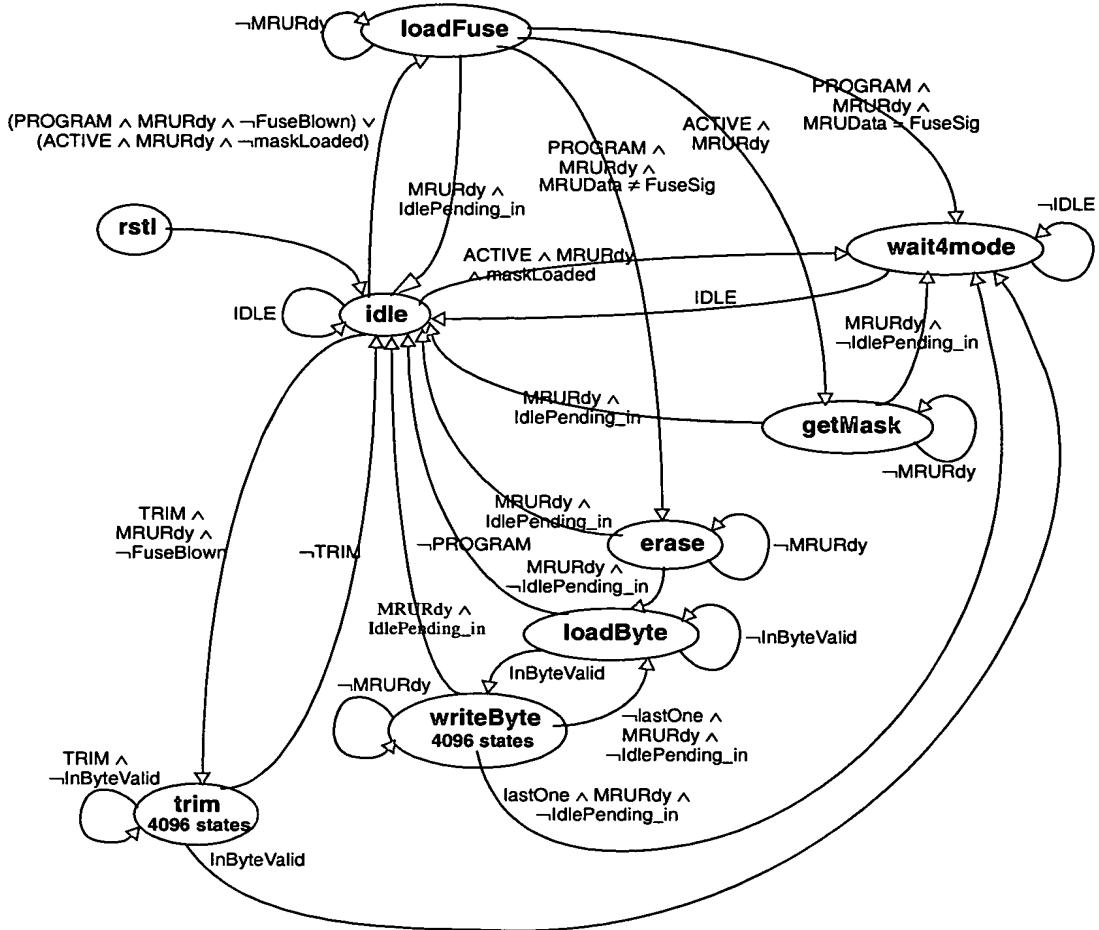


FIG. 407

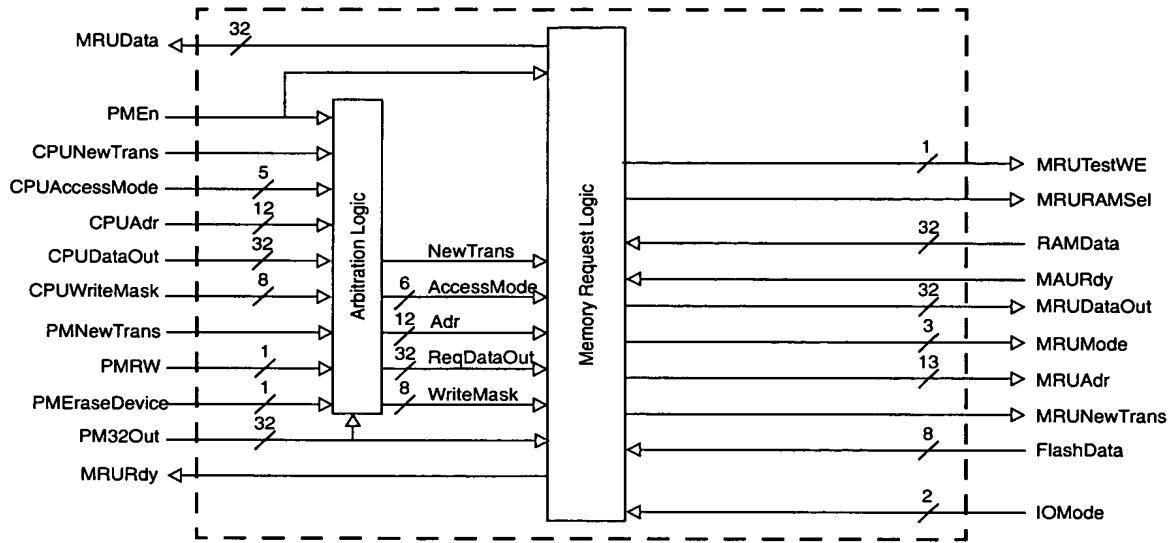


FIG. 408

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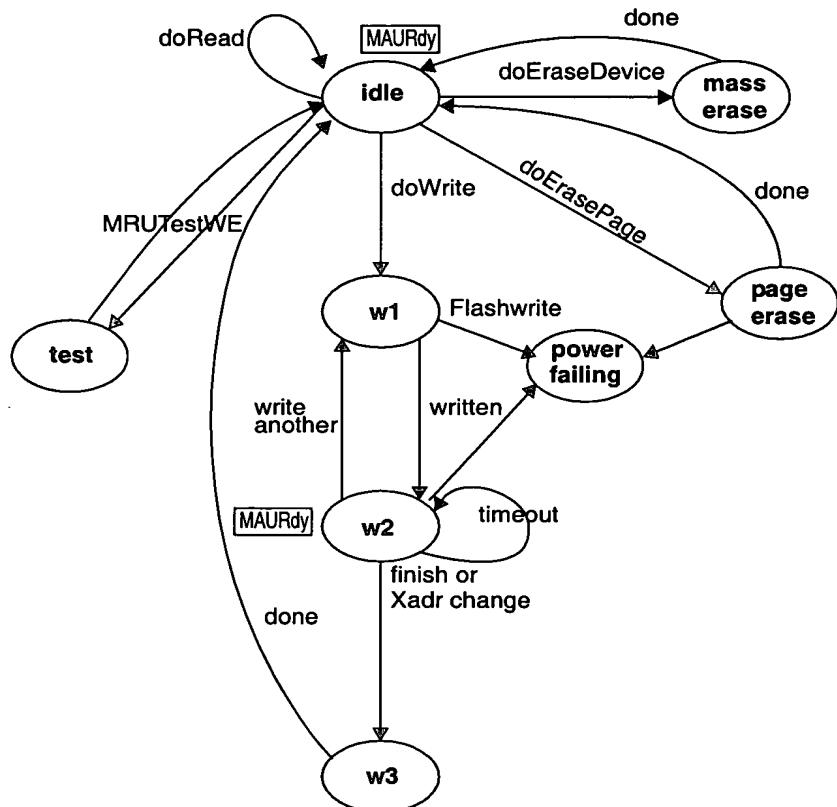


FIG. 409

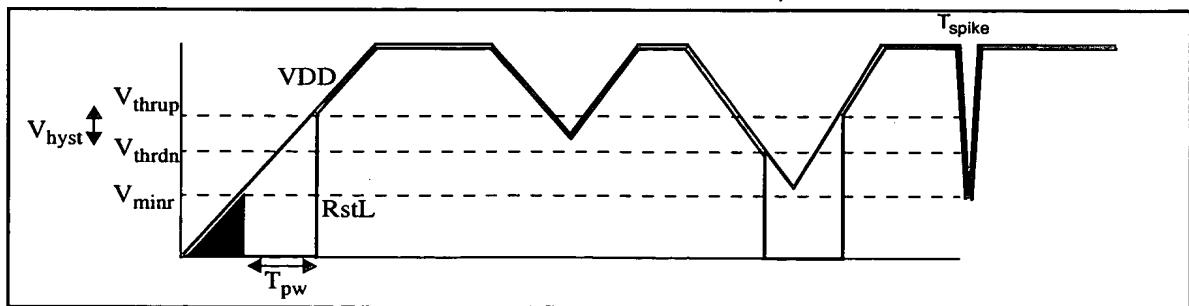


FIG. 410

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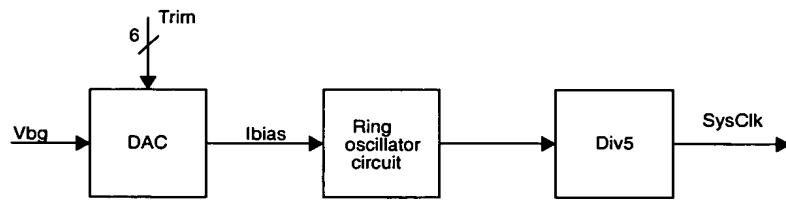


FIG. 411

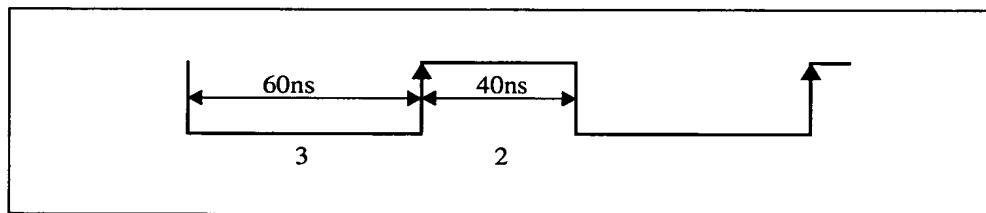


FIG. 412

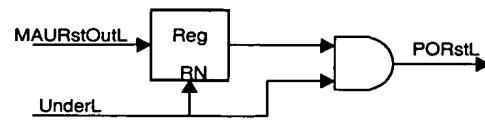


FIG. 413